THE FRAMEWORK OF THE CONTEXT THEORY IN ARABIC PHILOSOPHY

It is apparent from the inchoate discussions of the context theory within school of Alexandria that the adoption of a logical classification of Rhetoric and Poetics necessitates a serious reappraisal of the principles aims of the logical arts in general. Within the Alexandrian tradition, broad sets of issues seem to emerge as central to this process of reevaluati one set involves the question of the relationship within logic between 1 guage and argumentation; the other concerns the relationship between lc and syllogistic, and the role of truth-values and modality in determining status of the various logical arts. Both sets of issues remain important in Arabic tradition's appropriation of the context theory. But whereas the Green are the commentary tradition seemed to offer only a very general, and sometim dubious, treatment of these themes, the Islamic tradition provides a fully veloped account of what sort of discipline logic must be if it is to encomp the arts of rhetoric and poetics. A key element in the ability of the Islan philosophers to accomplish this task is their use of the two epistemologi concepts of taşawwur and taşdīq (conception and assent) to explain structure and aims of all the logical arts. With these two concepts, the Islan tradition was able to formulate a unified conception of logic within which context theory could be incorporated.

In the present chapter, we will consider in a general way the Islar philosophers' discussion of the above issues insofar as they form the fram work into which the logical construal of rhetoric and poetics must be assize lated. First among the themes that we will examine is that of the relationsh between logical argumentation and its linguistic embodiment, and the important cations of that relationship for the communicative potential that unites to social and rational character of human discourse.

A. LOGIC, LANGUAGE, AND COMMUNICATION

1. Apophantic and Non-Apophantic Discourse

In the previous chapter, we discussed briefly a possible interpretation Ammonius's claim that poetics and rhetoric together form a distinctly asylligistic species of logic. This interpretation, based on Ammonius's commetary on chapter four of the *De interpretatione*, involved a bi-partitioning logic according to whether a given logical art is directed primarily toward communicating the contents of a process of reasoning to another individual

or whether instead it is primarily concerned with the relationship that obtains between language and the reality that it purports to interpret.

The remarks of Aristotle that are at the root of this distinction are brief, even parenthetical. Having given his definition of the meaning of "sentence" or "statement" ($\lambda \delta \gamma o c$) as it is used in logic, Aristotle, in chapter four of the *De interpretatione*, goes on to specify what kinds of statements ($\lambda \delta \gamma o c$) are apophantic or assertoric, and hence included within the scope of the *De interpretatione*. The distinguishing characteristic of apophantic statements for Aristotle is that they are "those in which there is truth and falsity." Non-apophantic discourse, which can usually be identified by the use of non-indicative grammatical moods (Aristotle's example is prayer), are placed outside the scope of the *De interpretatione*, and specifically designated as part of the realm of the poetical and rhetorical arts.²

Ammonius, as we noted earlier, claims to be following the lead of Theophrastus when he develops two distinct but related doctrines on the basis of Aristotle's brief remarks. In the text alluded to in the previous chapter, Ammonius suggests that non-apophantic discourse is not concerned with truth and falsity per se, because it fulfills the communicative functions of language primarily, and the cognitive functions only secondarily. The converse emphasis, however, obtains in the case of apophantic discourse. Hence, the non-apophantic functions of language are more properly dealt with in rhetoric and the poetics, because these two logical arts use language primarily to move and influence an audience, and not simply to convey knowledge and information.³

In the same passage, and in the Prooemium to his *De interpretatione* commentary, Ammonius suggests that the dichotomy between apophantic and non-apophantic speech has roots that reach far deeper than the simple distinction between communicative and intellective functions within language. Ammonius observes in his Prooemium that there is a fundamental distinction in human nature itself between the intellective and the animal or appetitive powers.⁴ Apophantic discourse alone is primarily derived from a person's cognitive or intellective powers, and it is for this reason that truth and falsity are properly applied to it. The various forms of non-apophantic discourse, on the other hand, proceed from the soul's appetitive powers, for they use speech in order to seek and acquire the objects desired by the appetitive faculties.⁵

See above, 33-34.

² De interpretatione 4.17a2-7. The new Oxford translation renders ἀποφαντική as "statement-making," whereas I have preferred to retain the Greek term, or to use "assertoric" as a translation.

Ammonius, In De interpretatione, 65.31-66.10, Verbeke, 126.17-30.

⁴ Procemium, In De interpretatione, 5.1-17, Verbeke, 7.15-8.32. The general concern of Ammonius in this passage is to explicate the meaning of "interpretation" as it is used in the title of Aristotle's work.

The various ways in which the soul is able to extend itself appetitively towards others are the basis for a further fourfold division of non-apophantic speech. See *In De interpretatione*, 5.6-14, Verbeke, 8.21-29: "The four kinds of speech which are not apophantic derive from the

In his exposition of *De interpretatione* chapter four, Ammonius makes plicit the link between the psychological foundations of non-apophar speech in the soul's appetitive powers and the communicative function that assigned to non-apophantic statements within the scope of logic. The task communicating to the audience by its very nature entails an appeal to the dience's appetitive powers. For here the speaker's purpose is not merely disclose the truth and refute errors; it is also his responsibility "to astor the audience, and make it more receptive to persuasion (τὸν ἀχροατὴν ἐχ πλῆζαι καὶ πρὸς τὴν πειθὼ χειρωθέντα ἔχειν)" about what he has closed. This, then, is what requires the orator and the poet to rely upon wof speaking which are more ornate than simple apophantic discourse. This ornateness will contribute to the task of affecting the audience, althout may be superfluous, in Ammonius's view, for the task of conveying truth.

In the Islamic philosophers' commentaries on *De interpretatione*, chap four, several of these same themes are also evident. In the *Shifa*², Avice emphasizes the point that apophantic speech (al-qawl al-jāzim) is the form of discourse to which truth and falsehood properly apply, and he dir us, like Aristotle, to the arts of rhetoric and poetics for the rules govern the other modes of speech. Averroes' commentary places similar emph on the dominion of appophantic speech over the spheres to which truth falsehood are proper. It is in the commentaries of al-Fārābī, however, the distinction briefly indicated by Aristotle, and developed in detail by monius, receives the most attention. Fārābī too concurs with the basic of that truth-values do not apply to non-apophantic speech, but he sugging rather cryptically that there is a sense in which these modes of discourse to be called true or false, if only accidentally. Unfortunately Fārābī does

appetitive powers (ἀπὸ τῶν ὁρεχτικῶν δυνάμεων) not by the soul acting on itself, but I reaching out to someone else whom it considers able to help it, in order to obtain what it s [This occurs] by its seeking from someone either words, in inquisitive or interrogative sp or some deed (πρᾶγμα). And if a deed, it either seeks to obtain [the attention] of the very son to whom the speech [is addressed], which is the vocative, or some action on his part. this [is sought] either from a superior, as in the optative, or from an inferior, as in the proimperative."

bid., 66.6-7, Verbeke, 126.26-27.

⁷ Al-Shifa', vol. 1, pt. 3, Al-'Ibārah (Interpretation), ed. M. El-Khodeiri, rev. I. Mac (Cairo: Dar el-Katib al-'Arabi, 1970), 32.3-5.

⁸ Talkhis kitāb al-^cibārah (Middle commentary on the De interpretatione), ed. N. Kassem, rev. C. E. Butterworth and A. Haridi (Cairo: General Egyptian Book Organiz 1981), §§16-17, 66.15-67.1. English translation by C. E. Butterworth, Averroes' Middle mentaries on Aristotle's "Categories" and "De Interpretatione" (Princeton: Princeton Univ Press, 1983), 132-33.

⁹ Al-Fārābī, Kuāb Bārī armīnīyās ayy al-cibārah (Peri Hermeneias, i.e. Interpretation M. Küyel [Türker], "Fârâbî'nin Peri hermeneias muhtasari," Arastirma 4 (1966): 47.14 The same treatise is edited by Muhammad Salīm Sālīm, Kitāb fī al-mantig: al-cibārah ([C Dār al-Kutub, 1976), 19.2-3; still more recent is the edition of Al-Ajam in vol. 1 of Al-n cinda al-Fārābī, 140.17-18. (Hereafter cited as 'Ibārah: refs. to the 1966 ed. prefaced by refs. to 1976 ed. by "S"; refs. to the 1986 ed. by "A"). English translation by F. W. Zir

philosopher who explicitly takes up in this context Ammonius's assignm a communicative function to the four non-apophantic modes of speec rābī notes that, in Arabic, the differences among the non-apophantic is not simply a morphological one. At least three of these four modes at tinguished solely on the basis of the different relations that obtain be the speaker and the addressee: a superior to an inferior (imperative); at rior to a superior (deprecatory); and an equal to an equal (interroga Only the vocative, which requires the addition of a phrase or particle, is phologically distinct from the rest. 15

There is an important, but easily overlooked, principle underlyin rābī's awareness that the relation between the morphological distinctic grammar, and the "illocutionary" acts of logic, is a merely accident al We have seen already that the ability to "translate" morphologically di forms into the indicative led some grammarians and logicians to the fall; judging non-apophantic discourse as essentially true or false. But such a ror would seem to be one to which it is all the more easy to succumb it case of rhetoric and poetics, where non-apophantic statements are often phologically indistinguishable from those assertions that do make claims. A poetic metaphor, for example, will have the form "S is P," though it does not seem to be asserted as a literal claim that a given precactually inheres in the subject.

The increased potential for such confusion in the realms of rhetoric poetics is attributable in part to the limitations of the *De interpretatione* sage that originally provided the impetus for the discussions of Ammand Fārābī. In relegating the study of non-apophantic discourse to rhe and poetics, Aristotle provides us with a single example of a non-apophantic example has been checause its non-indicative grammatical form (in Greek) makes it clearly ognizable as a non-apophantic utterance. But as a result of this, the totelian tradition sometimes seems to assume that the apophantic state of the logician coincides with the indicative statement of the grammarian

Farabi, 'Ibārah, T45.14-15, S17.6-8, A139.13-14; Zimmermann trans., 226: "Imperior of the control of the con request, and entreaty all have the same shape in Arabic. They only differ as regards the speaking and spoken to." Cf. Sharh al-Fārābī li-kitāb Aristūtālis fī al-tibārah (Alfarabi's commentary on Aristotle's Peri hermeneias), ed. W. Kutsch and S.Marrow, Recherch l'Institut de Lettres Orientales de Beyrouth, no. 12 (Beirut: Imprimerie Catholique, 51.11-13 (hereafter cited as Sharh al-cibarah); English translation by F. W. Zimmerman Farabi's Commentary and Short Treatise: "... [W]e find that imperative, request, and en are shaped alike in the languages we have obtained information about. As regards their sl they come under the same division. They differ only with regard to the addressee" (43-44). 16 The term "illocutionary act" was coined by J. L. Austin, in How To Do Things Words, ed. J. O. Urmson and Marina Sbisà, 2d ed. (1962; reprint Cambridge: Harvard U sity Press, 1975), 98-132. Austin's theory was further developed by John R. Searle, Speech An Essay in the Philosophy of Language (Cambridge: Cambridge University Press, 1969), The terms "illocutionary act" and "speech act" refer to the performative aspects of lan use, i.e. what the speaker intends to accomplish by means of his utterance, as distingu from the utterance's reference and predication. Examples of illocutionary acts are askin questing, promising, warning, demanding, asserting, and so on.

reflecting the dual character of language as both a communicative tool and vehicle for the acquisition of knowledge. This particular distinction has obous affinities with the distinction between apophantic and non-apophan speech. But whereas that distinction was rooted in the remarks of De inte pretatione, chapter four, the theme that now concerns us seems to be inspire instead by the consideration, in the opening lines of the De interpretatione, the relation between the written word, the spoken word, the impressions the soul, and the extramental objects corresponding to these impressions Aristotle observes that both the written and the spoken word act as signs objects and impressions, and that while these signs vary from one linguist group to the next, the objects and impressions themselves are universally t same for all humans. It is this semiotic conception of language that provides basis for the Arabic philosophers' awareness that logic must study the contions, not only of rational argumentation, but also of its linguistic embod ment. This perspective is aptly expressed by Fārābī in his *Ihsā* al-culū where the subjects ($mawd\bar{u}^c\bar{a}t$) of logic are described as "the intelligible" $(ma^{c}q\bar{u}l\bar{a}t)$ insofar as they are signified by expressions (al-alfaz), and expressions sions insofar as they signify the intelligibles."19

Within this dual ordination of logic, however, the rational or intelligib aspects are accorded a clear priority over the purely linguistic. Nonetheles Fārābī reaffirms throughout this and other works that the connection be tween expressions and intelligibles is essential to logic, and reflected in bothe Greek and the Arabic words for "logic" ($\lambda \delta \gamma o \varsigma / nutq$): "For both these, that is, the intelligibles and the words ($al-aq\bar{a}w\bar{\imath}l$) by which they a interpreted, the ancients called 'speech' (al-nutq) and 'word' (al-qawl). For they called the intelligibles 'the word' or 'the internal speech established the soul'; whereas they called that by which it is interpreted 'the word' (speech emitted vocally' (wa-al-nutq $al-kh\bar{a}rij$ bi-al-sawt)." 20

The dual ordination of logic to both the external and the internal wo figures prominently in Fārābī's discussion in the *Ihṣā*' of the purpose of logical According to Fārābī, the primary utility of logic is in the verification or valuation of the truth (taṣḥāḥ) and the prevention of error, through the application of a determinate body of canons or rules. This process of logical verification can either be directed towards a personal and intellective end,

towards a social and communicative one. For the logician does not simply seek to validate beliefs for himself. He also examines the methods of measuring and verifying the views of others, and the methods of responding to those who seek to validate or correct his own tenets.²³

It would seem that the distinction between personal and communicative aims within logic is the fundamental one in Fārābī's view, and ultimately provides the grounds for recognizing the dual character of the subject-matter of logic. For Fārābī suggests that the logician's concern with the external word, as well as the internal, is itself necessitated by the fact that the intellect towards which logical validation is directed need not be one's own. This emerges clearly from the explanation that Fārābī provides for his claim that the subject-matter of logic cannot be confined to either intelligibles or expressions alone, but must include as well a recognition of the interplay between the two:24

And this is because we only verify belief (al-ra²y) for ourselves by thinking, reflecting, and establishing in our souls facts (umūran) and intelligibles whose role is to verify this belief. And we only verify [a belief] for another by communicating (bi-an nukhāṭiba-hu) to him with words (bi-aqāwīlin) by which we make him understand the facts and the intelligibles whose role it is to verify this belief.²⁵

¹⁸ De interpretatione 1.16a3-8.

¹⁹ Iḥṣā³ al-^culūm, 74.10-12, Palencia, 133.23-25. ²⁰ Iḥṣā³ al-^culūm, 75.7-11, Palencia, 134.12-16.

The basic meaning of *tashin* is "to make sound/healthy." It can be applied both to process of confirming and validating true beliefs, and to the correction and rectification of liefs that are found to be unsound.

²² Iḥṣā' al-'ulūm, 67.5-9, Palencia, 128.7-14: "For the art of logic provides in general seanons whose role it is to rectify (tuqawwimu) the intellect (al-'aql), and to show humans show to the path of correctness and to the truth, in everything among the intelligibles abowhich it is possible to err. [Logic also gives] the canons which preserve and protect the intelligence error, lapses, and mistakes concerning the intelligibles; and [it gives] too the canons which it may put things concerning the intelligibles to the test, [things] of which it is not certiwhether it may be in error."

²³ Ibid., 69.2-4, Palencia, 129.22-25: "And it is clear that this purpose [of logic] is of great utility, in everything which we seek to verify for ourselves ($tashih \ inda \ anfusi-n\bar{a}$), and in what we seek to verify for others, and in what others seek to verify for us."

That Fārābī considers all three of these relations between the act of verification and the recipient of that act to be important is evidenced by the fact that he devotes a separate discussion to the question of how the canons of logic operate in each of these three situations, i.e. when the canons are for ourselves, when they are for others, and when they are applied to our beliefs by someone else (Insā al-ulūm, 69.5-73.3, Palencia, 129.25-132.21). Cf. also Falsafah Ariṣtū-tālīs, 78.15-17, Mahdi trans., 87: "[Aristotle] gave an account of all the rules that can be employed by the man who investigates, ... some for when he is investigating by himself and some for when he is investigating with others."

²⁴ Cf. the Kitāb al-jadal, 63.3-5, where Fārābī emphasizes that the term "premise" (al-muqaddimah) can be applied to any categorical proposition which is to be used in a syllogistic context, "which a person employs concerning what is within himself (fi-mā bayna-hu wa-bayna nafsi-hi), or which he employs in addressing someone else (fi mukhātabati ghayri-hi)."

Ihṣā' al-'ulūm, 74.12-15, Palencia, 133.25-29. It may be necessary to explain the translation of al-ra'y as "belief" rather than the more usual "opinion." I have avoided using "opinion" because in both the Platonic and Aristotelian traditions "opinion" suggests a translation of δόξα, and implies a conscious opposition to ἐπιστήμη, i.e. certain knowledge. But this aspect of δόξα is almost always rendered by the Arabic zann, (usually translated as "supposition"), whereas ra'y generally connotes any thought or belief, whether certain or not, viewed from the perspective of the knower's adherence to it, rather than from that of its objective strength or correctness. For explicit statements to this effect, see Fārābī, Sharā'it al-yaqīn (Conditions of certitude), ed. M. Fakhry in Kitāb al-burhān wa kitāb sharā'it al-yaqīn suivis des gloses d'Ibn Bâja sur le Burhān, vol. 4 of Al-Mantiq 'inda al-Fārābī (Beirut: Dar el-Mashreq, 1987), §1, 98.5-7: "We said 'that one be convinced of the thing that it is thus or not thus.' This is the genus of certitude. And it makes no difference whether we call it conviction (al-tiqād) or consensus (al-ijmā') that this is thus or not thus. And this is belief (wa-hadhā al-ra'y)." Cf. Kitāb al-khatābah (Book of rhetoric), ed. Jacques Langhade in Deux ouvrages inédits sur la Réthorique (sic), ed. J. Langhade and Mario Grignaschi, Recherches de l'Institut de Lettres Orientales de Beyrouth, vol. 48 (Beirut: Dar el-Machreq, 1971), 33.7-35.2: "And opinion (al-zann) and certitude (al-yaqin) have in common the fact that they are belief (ra'yun). And belief is to be con-

Although the distinction between the inner and outer word suggests the communicative aspects of language ought to be considered equally as portant for the logician as are the intellective ones, the Islamic philosoph including Fārābī, generally accord priority to those arts in which the mear as understood has precedence over its linguistic expression.

This point is very clearly exemplified in Avicenna's discussion of the d nition of the syllogism in the Qiyās. Avicenna begins here by identifying genus of the syllogism as that of discourse or statements (al-qawl). Like rābī before him, Avicenna notes that discourse, and thus syllogistic, app both to the mental constructs or reasonings (afkār) which lead the sou give its assent to something else, and to the composite of spoken propositi by which another proposition is entailed. However, Avicenna claims a speech as uttered and audited is not an essential component of syllogism. The reason for this is that expressions, taken simply in themselves, do not tail anything, since the logical connections upon which the syllogism is ba are not directly dependent upon linguistic constructions. It is only beca language signifies intelligible meanings, which can be combined with one other to lead the mind to hitherto unknown intelligibles, that the syllog can be identified as a linguistic construct as well as a rational one.²⁶

While Avicenna does admit that both the vocal and the intelligible w together constitute the genus of the syllogism, the priority accorded to intelligible aspects of the syllogism is unmistakable. Avicenna adds, not over, that this order of priority is preserved fully in demonstrative syllogis alone. Only demonstrative syllogisms can be perfected and completed sim through their relation to intelligible meanings. In all the other arts, commication is an essential, and often overriding, concern. The result is that them, the primary cognitive goals of the syllogism become subordinated to secondary aims:

However, the syllogism which is understood (al- $qiy\bar{q}s$ al- $ma^cq\bar{u}l$) may suffice fo by itself in attaining the end of the syllogism, if what is sought is demonstrative.

vinced of something that it is thus or not thus. And it is like the genus of the two, whereas are like [its] species." Cf. Georges Vajda, "Autour de la théorie de connaissance chez Saad Revue des Études Juives 126 (1967): 378 n. 1.

for dialectical, rhetorical, and sophistical syllogisms, as well as poetics, the syllogism as heard cannot be dispensed with in bestowing the end of each of them.²⁷

This notion of the relative independence of demonstration from the exigencies of language is a reflection of the more general conviction that logic is principally aimed at a cognitive end, whose pinnacle is identified as the attainment of noetic certitude. Since language has been conceived primarily as a sign and conveyor of such intellectual goals, its logical importance becomes secondary. So the preoccupation of the non-demonstrative arts with language naturally becomes an important indicator of their secondary logical status. In some extreme cases, the linguistic dependency of these arts seems to preclude their inclusion in the scope of philosophy. Such a tendency is evident, for example, in Fārābī's occasional penchant for identifying demonstrative discourse with philosophy itself.²⁸

Despite the clear precedence given to demonstration because of its relative independence from the linguistic and communicative encumbrances of logic, there are indications of a counterbalancing awareness in Islamic philosophy that demonstration alone cannot fulfill the aims of logic. The most important indication of this moderating view is found in Fārābī's Taḥṣīl alsaʿādah (Attainment of happiness). In this work, Fārābī tells us that the logician who confines himself to the purely theoretical and personal goals of his art can never be a consummate philosopher:

When the theoretical sciences are isolated and their possessor does not have the faculty for exploiting them for the benefit of others, they are defective philosophy. To be a truly perfect philosopher one has to possess both the theoretical sciences and the faculty for exploiting them for the benefit of all others according to their capacity.²⁹

Avicenna also uses ra^3y as a generic term to cover both "ilm and zann in the Burhān of Shifā", 256.4-5: "Among that which is known, there is knowledge ("ilman) of the thing opinion (zannan) of it. The difference between them is by way of security and insecu [respectively], but both of them are included under belief (wa-anna-humā dākhilāan tahta ra^2y)." The latter passage is noted by Josef Van Ess, Die Erkenntnislehre des "Adudaddīn al-Übersetzung und Kommentar des ersten Buches seiner Mawāqif (Wiesbaden: Franz Steiner V lag, 1966), 72; but Van Ess suggests that ra^2y is rendering $b^6 (x)$ here. This is unlikely, howe for in the corresponding Aristotelian text (Posterior Analytics 1.33) $b^6 (x)$ is being contra throughout with $b^2 \pi \cos^2 \mu m$ (= "ilm), and thus is equivalent to zann in Avicenna's exposit Charles Butterworth also recognizes this distinction between ra^2y and zann in his edition translation of Averroes' Jawāmt al-jadal, 104 n. 1, though he continues to render ra^2) fromingo."

²⁶ Avicenna, Qiyās, 54.6-55.1. Fārābī too notes that the term "syllogism" can be app both to the external vocal utterance and to the mental construct, Iḥṣā̄ al-ʿulūm, 75.12-14, lencia. 134.19.

²⁷ Qiyās, 55.6–9. With a slightly different emphasis, Fārābī too notes the special link between communication and the non-demonstrative arts. See Al-Tawū'ah (Introduction [to logic]), ed. and trans. D. M. Dunlop in "Al-Fārābī's Introductory Risālah on Logic," Islamic Quarterly 3 (1956-57): 226.6–8; more recently edited by Rafiq al-Yajam in vol. 1 of Al-mantiq inda al-Fārābī, 56.15–57.2: "The syllogism is employed either in discoursing with another or in a person's bringing out something in his own mind. It is characteristic of philosophy to employ the syllogism in both matters, while the rest of the five each employs many syllogisms in discoursing with another. Philosophical discourse is called demonstrative" (Dunlop trans., 231, 38

E.g. Al-Tawti ah, 'Ajam ed., 56.15-57.2, Dunlop ed., 226.6-8, trans., 231 (quoted in n. 27 above). Cf. Kitāb al-jadal, 27.12, where the philosophical sciences (al-'ulūm al-falsafīyah) are equated with the certain (al-yaqūnīyah, i.e. demonstrative) sciences.

The theme of communication as it relates to the non-demonstrative arts is discussed by Galston, in "Al-Farabi et la logique aristotélicienne," 206-21. Galston's interpretation of the implications of Farabi's views on the relationship between demonstration, philosophy, and the other logical arts in "Al-Farabi on Aristotle's Theory of Demonstration," in *Islamic Philosophy and Mysticism*, ed. Parviz Morewedge (Delmar, N. Y.: Caravan, 1981), 23-34, is somewhat different from our own.

Taḥṣāl al-sa'ādah, 89.9-12, Mahdi trans., 43. That Fārābī has the use of rhetoric and poetics in mind is evidenced by his reference, a few pages later, to the use of persuasive and imaginative methods: "Moreover, [the philosopher] cannot bring [the voluntary intelligibles] about in all others according to their capacities except by a faculty that enables him to excel in persuasion and in representing things through images" (92.9-10, Mahdi trans., 46).

Despite the clear acknowledgement that this passage makes of the philos pher's duty to communicate his knowledge, the subordination of the comm nicative part of logic nonetheless prevails. For Farabī declares explicitly, the same text, that however indispensable the linguistic and communicati arts may be for the philosopher's overall perfection, their importance pe tains exclusively to his social and political tasks. The philosopher, q philosopher, does not need the communicative arts of rhetoric and poetics

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perfect his own knowledge; nor do these arts enrich in any way his persor philosophical experience. Such a view is stated rather bluntly in Farabi's d

cussion of the relation between philosophy and religion:

Now these things are philosophy when they are in the soul of the legislator. The are religion when they are in the souls of the multitude. For when the legisla knows these things, they are evident to him by sure insight, whereas what is es: lished in the souls of the multitude is through an image and a persuasive argume Although it is the legislator who also represents these things through images, n ther the images nor the persuasive arguments are intended for himself. As far he is concerned, they are certain. He is the one who invents the images and t persuasive arguments, but not for the sake of establishing these things in his o soul as a religion for himself. No, the images and persuasive arguments are tended for others, whereas, so far as he is concerned, these things are certain.30

It is obvious that a certain ambivalence is present within the Arabic philos phers' general discussion of the communicative aspects of logic, especially they relate to the arts of rhetoric and poetics. Perhaps paradoxically, the un versal acknowledgement of the logician's need to concern himself with comunication is an important factor in promoting the full participation rhetoric and poetics in the realm of logic; yet at the same time, the comrn nicative functions of rhetoric and poetics ensure their subordination to wh remains the primary purpose of logic, the guidance of the philosopher in quest for certitude.31

3. Inquiry, Instruction, and Contemplation

The question of the extent to which the ideal of demonstrative science, as set forth in Aristotle's Posterior Analytics, is in practice the proper or primary method for philosophy, or indeed the method employed in Aristotle's own philosophical investigations, is one that has preoccupied many scholars working both on Aristotle and on the Aristotelian tradition. Many have drawn attention to the fact that most of the extant Aristotelian corpus fits more accurately the paradigm of dialectic than it does that of demonstration, and that demonstration itself represents an ideal only narrowly realized, primarily in the mathematical sciences.32

Similar concerns arise when we examine the Islamic philosophers' conception of the role of demonstration and its relation to the overall pursuits of philosophy. As with the controversies surrounding Aristotle's concept of demonstration, the issues that are of special concern in the Arabic context are centered around determining the nature of philosophical inquiry. But these basic Aristotelian issues are further complicated by the historical conditions of Arabic philosophy, and the need to accommodate the Aristotelian model itself into the conception of philosophy. For the rediscovery of the Aristotelian corpus, and the awareness of the historical evolution of philosophy among the Greeks, alters somewhat the Islamic philosophers' construal of the relationship between inquiry, instruction, and contemplation within the philosophical disciplines. As the recipients of a large body of apparently ready-made demonstrative sciences, the philosophers of the Islamic tradition envisage their task less as one of inquiry, and more as one of learning and teaching, revising where necessary, and contemplating and applying the knowledge thus acquired. This too will have its effects upon the context theory, and these effects will be ambivalent ones. For the apparent success of the Stagirite in attaining the demonstrative paradigm in philosophy contributes to the suggestion, already present among the Alexandrians, that the other logical arts are by and large superfluous. And yet the consequent emphasis upon instruction and communication, the forte of rhetoric and poetics, suggests a heightened awareness of the dependence of demonstrative science upon postdemonstrative methods.

Of the major Islamic philosophers, it is Farabī who provides the most systematic and illuminating discussions of the respective roles of inquiry and instruction within philosophy itself, in the context of his historico-anthropological speculations on the origins and development of philosophy in three

³⁰ Taḥṣīl al-sa^cādah, 94.7-15, Mahdi trans., 47. Cf. Averroes, Epitome in libros logicae totelis, Abramo de Balmes interprete, vol. 12 of Opera omnia (Venice, 1704), 62ab:"[N]ora ciemus mentionem de his sermonibus, nisi de illis, quorum consuetudo est, ut veniant in us demonstrationis. Et hi sunt necessario duarum specierum, vel communes arti demonstrationi et caeteris quinque artibus, aut sunt proprii, quamvis plures eorum sunt communes. Sicque secernemus id, quo erunt proprii[;] attamen normae, quibus utuntur syllogistici topic i, rhetorici non sunt necessariae ad addiscendum artes perfecte, et praecipue Rhetorica, et P tica, quia non sunt necessariae ad addiscendum artes speculativas."

To some extent, this would seem to be equally damaging to dialectic. For in the Kitāb jadal, 37.6-7, Farabī tells us that because dialectic gives its practitioner the capacity to widely-accepted beliefs (al-mashhūrāt), it is the only art by which one can develop abilit "external and exoteric philosophy" (al-falsafah al-khārijah wa-al-barrānīyah). Fārābī goes to link external philosophy to the political nature of human beings, and to the philosoph consequent need to be friendly and communicate with the masses (36.16-37.11). However alectic's philosophical utility is not limited to this communicative role; rather, Farabi lists, in same chapter of the Kitāb al-jadal, a multitude of useful functions that dialectic can play wi philosophy itself, especially as a propaedeutic to demonstration (29.16-38.3). Hence dialec status, at least where Farabī is concerned, is not affected by the considerations we have cussed in the present section to the same extent as are rhetoric and poetics.

³² See the first part of G.E.L. Owen, "Tithenai ta Phainomena," in Aristote et les problèmes de méthode, ed. Suzanne Mansion, Communications présentées au Symposium Aristotelicum 24 tenu à Louvain du 24 août au 1er septembre 1960, 83-103 (Louvain: Publications Universitaires; Paris: Béatrice-Nauwelaerts, 1961), reprint in Articles on Aristotle, vol. 1, Science, ed. Jonathan Barnes, Richard Sorabji, and Malcolm Schofield (London: Duckworth, 1975), 113-26. For an overview of the various positions on this matter, and an alternative interpretation of the nature of demonstration, see Jonathan Barnes, "Aristotle's Theory of Demonstration," Phronesis 14 (1969): 123-52 (reprint in Articles on Aristotle, vol. 1, Science, 65-87).

works in particular: the Kitāb al-ḥurūf, Kitāb al-khaṭābah, and the Kitāb iadal.³³

The Kitāb al-hurūf is a particularly useful text for examining the fate inquiry as a philosophical pursuit, since the whole of its third and conclud part is devoted to a detailed study of the various interrogative particles how they are used in philosophy and in other disciplines.34 Yet despite rābī's obvious interest in the nature of investigation and its linguistic tools. remarks in the earlier parts of the text raise some fundamental question about the extent to which interrogative particles, when used in philosop signify a truly investigative intention. It is clear that Farabī considers the of the interrogative mood to be an indication that the speaker is in some undertaking a search for causes. In fact, Farabī explicitly distinguishes the of interrogative particles in demonstration, dialectic, and sophistic from th use in rhetoric and poetics, on precisely these grounds. Only the arts of de onstration, dialectic, and sophistry use interrogative particles literally, order to pose a question, with a view either to eliciting a response from listener, or to establishing in the questioner himself true causal knowledge rhetoric and poetics these particles are only used metaphorically, by way embellishment and in order to display mastery of the language. The poet orator do not seek a cause or an answer from their audience, nor even fr themselves, when they pose questions. Their queries are, as we would say common parlance, merely "rhetorical questions."35 Still, although the use the mode of questioning in the art of demonstration is a literal one, it is a obvious that in Farabi's view the literal function of interrogative particle not that of inquiring into hitherto undiscovered causes, in order to unveil r truths and establish them with certitude. The role of such particles is instito define the various types of causal explanations that are possible, as t might be embodied in a response to the question, and to indicate whether pupil is to provide a ὅτι or a διότι demonstration.36 When the philosop poses the question "why?" for example, he is indicating that his concert not only with the fact of an object's existence, but also with its causes.³⁷ Th need be no implication that those causes as yet remain a mystery, or that

answers he gives will be entirely novel. The interrogative particle merely defines the scope of the causal explanation being offered, or at most, it may serve a heuristic function, if the task at hand is to aid the philosophical novice in his personal acquisition of demonstrative knowledge.³⁸

The restrictions that have been imposed here upon the demonstrative functions of interrogative particles appear to be necessitated by an earlier section of the *Kitāb al-hurūf*, which, along with parallel passages in other texts, contains Fārābī's account of the historical genesis of philosophy. Fārābī envisages the development of philosophy as essentially a matter of methodological advancement. Its stages are marked by the gradual progression of methods of inquiry, from a disorganized and undirected groping for truths using rhetorical and poetical methods, through the eventual development of the more advanced methods of sophistic and dialectic, until finally the demonstrative method is developed, and recognized as the ideal towards which all the earlier methods were striving. That such an ideal has indeed

We have chosen Fārābī as our focus here because he develops the theme of the histor evolution of philosophy in the greatest detail. Avicenna's views on the history of philosophy and his own place in it, betray concerns similar to those of Fārābī, but Avicenna's position the completeness of philosophy's evolution is complicated by his developing consciousnes his own place within that history. For a detailed consideration of Avicenna's view of his plachistory, see Gutas, Avicenna and the Aristotelian Tradition, 198-218, 286-96. Gutas also yields translations of relevant texts, in particular the Epilogue to Al-Safṣaṭah (Sophistics) of Shifā' (Gutas, 34-38), and the Introduction to Al-Mantiq al-mashrāryīn (Logic of the Easters) (Gutas, 44-49).

The discussion of the interrogative particles occurs in §§159-251 of the Kitāb al-hu 162-226. A shorter and somewhat different discussion of interrogative particles is found in Kitāb al-jadal, 45.17-48.16.

³⁵ Kitāb al-hurūf, §§ 249-51, 224.20-226.21.

³⁶ Ibid., §215, 204.15–19.

³⁷ Ibid., §215, 204.8-9.

³⁸ In §221 of the Kitāb al-hurūf (209.1-17), Fārābī gives mathematics as an example of a completed science which requires no further investigation, because it has fully attained the status of demonstration. In such a science, Farabi says, questioning becomes nothing more than a pedagogical tool: "For the questioning of the pupil by the teacher is not research, or investigation, or inquiry about what the teacher says, but rather, [the question] is only posed either to make the meaning of something in the art be conceived or understood [by the pupil], or to make him certain of the existence of this thing, or of the cause of its existence as well, in order that the demonstration of the thing about which questions are posed be attained by [the pupil]. The first [aim is attained] by the particle 'what,' the second by the particle 'whether' and what takes its place, and the third by the particle 'why' and what takes its place, or by means of some particle whose force is that of 'whether' and 'why' together, if this should be found in some language." On this passage cf. Georges Vajda, "Langage, philosophie, politique et religion d'après un traité récemment publié d'Abū Naṣr al-Fārābī," Journal asiatique 258 (1970): 254. On the topic of the completion of mathematics, contrast the attitude of Maimonides, as discussed by Joel Kraemer, "Maimonides on Aristotle and Scientific Method," in Moses Maimonides and His Time, ed. Eric L. Ormsby, 53-88, Studies in Philosophy and the History of Philosophy, vol. 19 (Washington, D. C.: The Catholic University of America Press, 1989),

<sup>60-61, 78-79.

39</sup> The place of poetics in the historical development of demonstrative methods is somewhat unclear, as Muhsin Mahdi has noted in "Alfarabi on Philosophy and Religion," The Philosophical Forum 4 (1972): 10. Both pre- and post-demonstrative uses of poetics are recognized in the Kitāb al-hurūf, pre-demonstrative uses in §§129-30 and §138, post-demonstrative uses in §§143-44. But poetics does not figure explicitly in the actual account of the evolution of demonstrative methods in §§140-43. And poetics is not mentioned at all in the parallel account of the history of philosophy offered in the Kitāb al-khatābah (see n. 49 below); similarly, in the Kitāb al-jadal, while poetics is implicitly included among the syllogistic arts (there are five syllogistic arts according to 57.17), it does not figure at all in the ensuing discussion of the hybrid syllogisms that are found in the earlier stages of philosophy's development. This does not, however, imply that poetics is not truly a syllogistic art in Fārābī's view. Rather, since the syllogistic structure of poetics is only potential (Qawānīn al-shu'r, 268.16-18), poetic discourses cannot directly evolve into rhetorical, dialectical, and hence demonstrative, syllogisms, for they do not possess openly the structure that allows them to partake of the oppositional and adversarial movements that are crucial, in Fārābī's view, to the development of superior logical methods.

⁴⁰ This represents a very general synopsis of the account given in §§129-46 of the Kitāb alhurūf (142.5-153.11). Excerpts from this discussion are translated by L. V. Berman in "Maimonides, The Disciple of Alfārābī," Israel Oriental Studies 4 (1974): 171-78. The related and important discussion of the relationship between religion and philosophy in this account,

been realized, and that inquiry has ceased to be of paramount concerm philosophy, is clearly indicated by Farabi's description of the state that losophy had reached by Aristotle's time:

Then these matters became widely-discussed, until the state of affairs that exis in the days of Aristotle became well-established. And scientific speculation nazar al-cilmī) reached its apex, and every method was distinguished, where un universal speculative and popular philosophy were perfected, and there remain in them no subject of investigation. So [philosophy] became an art that one me learns and teaches. And there is a teaching of it which is a special one, and teaching common to all. And the special teaching is by means of demonstra methods alone, and the common is that which is popular, and is by means of alectical, rhetorical or poetic methods. However, the rhetorical and the poetic more suited to being used in instructing the masses in the belief that has been tablished and verified by demonstration, in theoretical and in practical things. 41

The impression created by such an account is generally reinforced by Far al other works. The discussions of the Falsafah Aflatun (Philosophy of Pla and the Falsafah Aristūtālīs reflect the same conception of the history of p losophy, as a progression from the use of unreliable poetical methods to development of demonstration. Farabi's Plato, for example, undertakes systematic and critical evaluation of each of these methods in the individ dialogues: poetics in the Ion, rhetoric in the Gorgias, and sophistry in Sophist and Euthydemus. But Plato was able to reach no further than perfection of the dialectical methods, leaving Aristotle with the task of co pleting the development of demonstrative science.42 The Kitab al-jadal p

and in §§108-11, does not concern us at present; it is discussed in some detail by Muhsin Ma in "Alfarabi on Philosophy and Religion," 2-25. See also Georges Vajda, "Langa philosophie, politique et religion," 245-60.

41 Kitāb al-hurūf, 151.17-152.6. Averroes too, in his Epitome in libros logicae, 62a, emp sizes the perfection of the logical arts in his time: "... artibus perfectis secundum quod s artes hoc nostro tempore."

42 Falsafah Aflatun (Philosophy of Plato), ed. Franz Rosenthal and Richard Walzer, Pl Arabus, vol. 2 (London: Warburg Institute, 1943); trans. in Mahdi, Alfarabi's Philosophy Plato and Aristotle, 51-67. See also Kitāb al-khatābah, 55.5-57.9. In the latter account of evolution of demonstrative methods, Farabi credits Plato with being the first to become aw of demonstration and distinguish it from other methods. But Farabi adds that Plato did so of in practice, as a result of his natural philosophical genius. It still remained for Aristotle to s tematize demonstration into a body of "universal rules" (qawānīn kullīyah). Cf. Kitāb al-al 110.5-111.2 (translated and discussed by Gutas, "Paul the Persian," 258-59). References to historical development of logical methods are also scattered throughout the Kitāb al-jadal, 19.6-8, 25.15-26.1, 27.13-18, 60.22-62.10.

The notion that philosophy has been completed appears somewhat more tentative in the I safah Aristūtātīs. The last paragraph refers to "our defective natural science" (mā naqasni al-'ilm al-tabi'i), and adds that "we do not possess metaphysical science" (idh lam yakun ma nā alladhī ba'da al-tabī'i) (132.15-133.1, Mahdi trans., 130). It is not clear whether Farāb making a general claim about all philosophers, or only about the Arabic philosophical traditi For a discussion of Farabi's position on Aristotle's metaphysical accomplishments, see T. Druart, "Al-Farabi and Emanationism," in Studies in Medieval Philosophy, ed. J. F. Wipt Studies in Philosophy and the History of Philosophy, vol. 17 (Washington, D. C.: Catholic U versity of America Press, 1987), 23-43; M. Galston, "A Re-examination of al-Farabi's N platonism," Journal of the History of Philosophy 15 (1977): 13-32.

sents the same basic pattern of historical development, while focusing primarily on the place of dialectic and sophistry, and omitting the mention of rhetoric and poetics. While past philosophers of necessity used a hybrid method that mixed the wine of demonstration with the water of dialectic and sophistry, the attainment of the demonstrative ideal by Aristotle makes such methods into at best the servants of truly scientific methods:

And the philosophical, that is, the certain, sciences, always use, in proving all of their objects of inquiry, the scientific syllogisms which we mentioned. And the mixed method, which we mentioned, is that which was the method of philosophy in the past, until the three methods were distinguished from one another, and divided into scientific, dialectical, and sophistic. And the scientific methods were attained, and they became the scientific art, and they are the end which was intended (al-ghāyah al-maqṣūdah). And the dialectical art became a [method of] training (irtiyādan), and an introduction to it, and a tool and servant of the scientific art. And the sophistical remained an imitation of the dialectical and a resemblance of it, and was supposed to be dialectical; sometimes it was [even] imagined

The Kitab al-alfaz al-musta malah fi al-mantiq (Utterances employed in logic) offers further confirmation that Farabi's belief in the completion of philosophy transforms logic into a pedagogical instrument rather than a tool for inquiry. Farabī devotes the latter half of this treatise to a discussion of various logical methods for causing conception and assent, such as the syllogism, induction, example and so on. This discussion is presented, however, as a preliminary consideration of methods of instruction or teaching (al-ta'līm), and throughout the emphasis is upon the use of these tools in a teacher-pupil

The notion that Aristotle's theory of demonstration is intended to provide a method that is primarily pedagogical is not itself foreign to contemporary Aristotelian scholarship. In fact, the instructional role of demonstration is one of the more prominent solutions offered to explain the difference between the theory of the Posterior Analytics and the practice of the Aristotelian treatises themselves. One proponent of such an interpretation even suggests that the reason for this is the Stagirite's own optimism that in his day most of the sciences were nearing completion.45 And there are strong textual arguments in favour of Farabi's view as well. The opening lines of the Poste-

⁴³ Kitāb al-jadal, 27.12-18.

See, for example Kitāb al-alfāz, 86.11-17. Principles of instruction also figure prominently in the Kitāb al-burhān (Demonstration), ed. Majid Fakhry, in vol. 4 of Al-mantiq cinda al-Fārābī, 77.1-90.16. See also Taḥṣīl al-saʿādaḥ, 90.3-91.13, Mahdi trans., 44. For a discussion of the educational role of the philosopher in Farabi, see Hans Daiber, The Ruler as Philosopher: A New Interpretation of al-Farabi's View (Amsterdam and New York: North Holland, 1986), 7-8. For a general discussion of the theme of instruction in Farabi's logical writings from the point of view of educational theory, see F. S. Haddad, "An Early Arab Theory of Instruction,"

Barnes, "Aristotle's Theory of Demonstration": "But in this respect Aristotle was an optimist; he thought that he was at the end of the world and he believed that the majority of the

rior Analytics themselves refer explicitly to a pedagogical setting: "All teaing (διδασκαλία) and all intellectual learning (μάθησις διανοητική) α about from already existing knowledge."46

Whatever the extent of the Aristotelian roots of Fārābī's vision of the 1 of demonstration, it poses some rather paradoxical ramifications for the 10 cal interpretaion of rhetoric and poetics. On the one hand, the theme of completion of philosophy should, to a large extent, close the gap between demonstration and the rhetorical and poetic arts, especially in the light of communicative aim associated with the latter. In a scheme in which it been suggested that philosophy is a completed science, demonstrative 1c itself appears to shift its focus to an essentially communicative end—that propagating a systematic body of philosophical knowledge to those who capable of comprehending it.⁴⁷

On the positive side, then, the emphasis upon instruction seems to narr the gap between demonstration and the non-demonstrative arts, to the ext that all methods will have as their ultimate end the communication of a sin body of truths revealed by previous investigations. Moreover, the reductior philosophy to an art "that one merely learns and teaches" does not elimin completely the philosopher's dependence upon the more tentative methor inquiry. For even if we grant Fārābī's belief that Aristotle had perfect philosophy for humanity as a whole, each individual philosopher will still have to reach his own personal understanding of the knowledge unveiled by a Stagirite. And to do this, he will have to inquire and investigate the philosophical problems for himself, although his task will be, on Fārābī's assum tion, immensely easier than that of the philosophical pioneers. As Fārāt

46 Posterior Analytics 1.1.71a1-2 (1:114).

himself hints, "philosophy must necessarily come into being in every man in the way possible for him." 48

It is clear, however, that the philosopher's personal need to emulate in some way the original process by which demonstrative truths were discovered preserves for rhetoric and poetics only a very minor role in philosophical pursuits. In Farabi's history of philosophy, these arts were no more than stepping stones on the way to demonstration; they can scarcely be any more than this in the philosopher's personal reenactment of that history. Once the various methods of logic have been discovered and delineated, the superiority of demonstration does not permit the philosopher to be satisfied with the other arts, at least not for his own use. This is already clear from the Tahsīl alsacādah, and its firm denial that the mastery of rhetorical and poetical methods can offer any personal satisfaction to the philosopher cum statesman who uses them for the sake of the masses. Once the demonstrative method has been discovered, the other branches of logic serve primarily as means for making the same truths palatable to the non-elite. Whatever propaedeutic role does remain for them within philosophy is secondary, and severely limited.49

The belief that philosophy can be, and has been, perfected has thus added a new twist to the Alexandrian assumption that the goal of demonstration is attainable in all cognizable matters, and that the utility of the non-demonstrative arts is completely exhausted by their role as supplements to demonstration. It is, of course, difficult to assess which elements in Fārābī's position are the necessary consequences of his apparent optimism regarding philoso-

48 Falsafah Aristūtālīs, 133.2-3, Mahdi trans., 130.

⁴⁷ In her article "Al-Farabi on Aristotle's Theory of Demonstration," Galston offers a s ilar view of demonstration as an art relegated by Farabi to the role of a tool of instruction. a "less central role in the pursuit of truth" (31). Although our interpretation of the role demonstration according to Farabi concurs with Galston's, her explanation of Farabi's moti tion in holding this position does not seem tenable. Galston believes that Farabi's tone and cabulary when referring to demonstration is often hypothetical and tentative, and that this be taken as a sign that he views demonstration as an ideal model for argumentation and quiry, which is seldom attainable in practice. The evidence presented to illustrate Farabi's 1. tativeness is, however, highly speculative. More importantly, it seems difficult to reconcile G ston's interpretation with Farabi's many confident proclamations that demonstrative philophy had already been completed by Aristotle. In the discussion of the Kitāb al-hurūf in 1 more recent "Alfarabi et la logique aristotélicienne," 199-202, Galston seems more aware this aspect of Farabi's thought, although she remains somewhat ambiguous regarding his pc tion on the closure of philosophy. Thus she suggests that Farabi is merely reporting the co placence of post-Aristotelian generations who "thought that [logic] had arrived at perfection and that there was nothing left but to teach and learn it, like an art to which nothing importa could be added" (199, emphasis added). But Farabi's language in the relevant passage of Kitāb al-hurūf (§143) in no way suggests that this is a description of other people's views, a not of Farabi's own. The Kuāb al-khatābah (55.5-57.9) does attribute the decision to relega the non-demonstrative methods to an ancillary role in the search for certitude to post-A totelian philosophers, but Farabi appears to approve of this decision, since he asserts catego cally that Aristotle had perfected demonstrative methods.

In the Kitāb al-khaṭābah, Fārābī claims that after Aristotle had systematized demonstration, philosophers abandonned the use of all other methods in their search for certain knowledge of speculative matters. Dialectic thus became a method to be used solely for the purposes of training and practice (al-rivadah-Langhade's translation of the term as "mathématiques" is incorrect in this context); sophistic came to be used only as a preventative against error; and rhetoric was limited to the task of communicating to the masses, and to the political realm in general. Poetics is not mentioned in this passage (57.1-9). Cf. Iḥṣā' al-culūm, 89.6-91.13, Palencia, 143.9-144.29. On the role of dialectic see also Kitāb al-jadal, 52.6-16 (which refers explicitly to the perfection of logic), and Kitāb al-burhān, 85.18-22; 94.6-14. For the most part, the Kitāb al-jadal is somewhat more generous in its view of the utility of dialectic (29.16-38.3), though training figures prominently among the five uses of the art recognized by Farabi. Uses (1) through (3) all represent various aspects of preparation for the acquisition of certain science; use (4) relates to communication, usurping somewhat the role reserved elsewhere for rhetoric and poetics; and use (5) relates to the preservation of philosophy against sophistry. Similar roles are assigned to dialectic by the other Islamic philosophers. Averroes, for example, emphasizes the training role of dialectic, and expresses considerable skepticism about its purported utility as an aid to demonstration in the discovery of first principles. See Jawami al-jadal, §21, 164.13-166.7, trans. 54-55; see also Butterworth's comments on the passage, 116 n. 4. For a brief discussion of Averroes' views on dialectic, see Kraemer, "Maimonides on Aristotle," 87-89. Kraemer argues that it is a "common misconception" that Maimonides, as well as Farabī and Averroes, had a "low opinion" of dialectic and its practitioners, and cites as evidence these philosophers' common view that dialectic is useful as a propaedeutic to philosophy, as well as for communication with the masses. While these assertions are certainly correct, dialectic nonetheless remains ancillary, as do rhetoric and poetics. The philosopher does not concern himself with dialectic gratia dialecticae, but only gratia demonstrationis.

phy's perfected state. Does his picture of the history of philosophy itself cessitate the subordination of rhetoric, poetics, and the other arts to demo stration, as Fārābī appears to hold?

FRAMEWORK OF THE CONTEXT THEORY

Farabī ought to be given a great deal of credit for his astute observation on the development of philosophy. That the earlier philosophers used my poetry, rhetoric, and the like as substitutes for more refined methods paint fairly accurate general picture of pre-Socratic speculation. It is also evocat of Aristotle's observations in *Metaphysics* A that the love of myth stems fro the same impulse of wonder as does philosophy.50 As for the notion the Plato reached only the level of dialectic, and left it to Aristotle to devel both syllogistic and demonstration, this concurs remarkably well with ma contemporary discussions of the Platonic roots of Aristotelian logic.⁵¹ But does not follow from Farabi's historical account that the non-demonstrati methods themselves are essentially stages in the ascent to demonstration Nor does it follow that after demonstration has been developed, these me ods remain useful only to the extent that they continue to serve the intere of demonstration, as propagative tools. That rhetoric and poetics were on used to perform tasks for which they were ill-suited does not, in sum, im that they have no proper tasks of their own, nor does it imply that the proper tasks are no longer of any importance to the philosopher.

It is the linear and progressive outlook implicit in Farabi's historical a proach, then, that apparently prevents him from recognizing any autonomo role for rhetoric and poetics.⁵² The history of philosophy is seen as a strug: to develop a truly demonstrative science, and once the philosopher has the supreme tool at his disposal, it seems perverse for him to revert to metho that mere necessity once foisted upon him. But if there are dimensions rhetoric and poetics that have been overlooked in this account, because the did not come into play in the developmental process, then Fārābī's positic and similar views, will have to be reexamined. For only on the assumpti

50 Metaphysics A.2.982b18-19.

that rhetoric and poetics are merely imperfect reflections of demonstrative science can Farabī maintain that these arts offer no additional personal benefit to the philosopher, qua philosopher, or even qua human being.

B. TASAWWUR AND TASDĪO (CONCEPTION AND ASSENT)

Within the general discussions of the nature and purpose of logic in the Arabic tradition, the couplet of taşawwur and taşdīq figures prominently. These two terms, which we will render as "conception" or "concept formation" and "assent," express for the Islamic philosophers the two basic cognitive acts which logic seeks to produce. Both terms are widely discussed in the logical and psychological writings of all three philosophers, and can justifiably be viewed as the cornerstones of medieval Arabic epistemology.⁵³

Although it is not our purpose to give a detailed account of the general role that this couplet plays in Islamic logic, the basic features of these two epistemological concepts are quite central for an understanding of the Arabic developments of the context theory.54 The term taşawwur refers to the act of the mind by which concepts are comprehended as unified (though not necessarily simple) wholes, and for this reason the Arabic philosophers usually identify the primary object of tasawwur as an essence or quiddity. In the Kitāb al-burhān, for example, Fārābī identifies perfect conception as the understanding of something "by means of what extracts its essence (bi-mā yulakhkhişu dhāta-hu) in a manner which is proper to it."55 Avicenna refers in the Najāh to our conceiving the "whatness" (māhīyah) of some object, such

Kitāb al-burhān, 20.2-3, Vajda, "La théorie de connaissance chez Saadia," 390; cf. 84.10-15.

This is not to suggest that Plato's conception of dialectic is the same as that of Aristo but only that the Islamic philosophers also recognized what is commonly accepted by most torians of ancient philosophy, that is, that Aristotle used Platonic dialectic as a starting po for his own logical speculation. From this, the Islamic philosophers assume that it is reasonal to treat Platonic dialectic as identical with the method studied in Aristotle's Topics. Cor. quently, they hold that Aristotelian demonstration represents an advancement over Pla rather than an alternative to him.

Many scholars have acknowledged the progressive strain in the Arabic tradition's view the history of philosophy, but have associated that progressive strain with the belief in the li tations of philosophy, or at least its openness to correction. See for example Kraem "Maimonides on Aristotle," 80; Galston, "Al-Fārābī on Aristotle's Theory of Demonstratic and "Al-Farabi et la logique aristotélicienne" (see n. 47 above); and Gutas, Avicenna and Aristotelian Tradition, 210, 218. What has not been recognized is that the progressive view the history of philosophy in and of itself does not fully determine any philosopher's position the level of evolution that philosophy has attained at a given moment in history. Two philosophy phers can concur that philosophy is progressive and perfectible, but differ in their views whether or not Aristotle had already attained perfection. Strictly speaking, then, it is as mi the interpretation of the facts of history, as it is the simple belief in its progressive charact that determines the issue under consideration here.

For conception and assent in Farabi, see Kitab al-burhan, 19.4-21.12, and passim. (Portions of this text [19.4-21.12], along with a long selection from the Kitāb al-jadal [17.5-25.15; 71.13-72.7] are translated into French by Georges Vajda, in "La théorie de connaissance chez Saadia," from the earlier edition by M. Türker of the first few pages of the Kitāb alburhān, and from the manuscripts of the Kitāb al-jadal. For the texts that concern us here, see 390-93.) See also Taḥṣīl al-satādah, 90.3-12, Mahdi trans., 44 (in this text tafhīm 'to make understood' is used instead of taṣawwur); and throughout §§40-50 of the Kitāb al-alfāz, 86.11-94.14. For Avicenna, see especially Al-Shifa, vol. 1, pt. 1, Al-Madkhal (Isagoge), ed. G. Anawātī, M. El-Khodeiri, and F. al-Ahwānī, rev. I. Madkour (Cairo: Al-Matba ah Al-Amīrīyah, 1952), 17.7-19.7; Najāh, Q3.7-4.6, 60.12-22; T7.2-8.6, 112.5-113.6; Ishārāt, 3.15-4.11, Inati trans., 49. There is also a discussion of these concepts in the 'Uyūn al-masā'il (Principal questions), a work formerly attributed to Farabi, but now generally believed to be the work of a disciple of Avicenna; the 'Uyūn is edited by F. Dieterici in Alfarabi's Philosophische Abhandlungen, 56.13-23. See also Amélie-Marie Goichon, Lexique de la langue philosophique d'Ibn Sīnā (Paris: Desclée De Brouwer, 1938), s.v.

For a more general consideration of these two concepts, see H. A. Wolfson, "The Terms Taşawwur and Taṣdīq in Arabic Philosophy and their Greek, Latin and Hebrew Equivalents, The Moslem World 33 (1943): 1-15; reprint in H. A. Wolfson, Studies in the History of Philosophy and Religion, ed. I. Twersky and G. H. Williams, 2 vols. (Cambridge: Harvard University Press, 1973), 1: 478-42; Van Ess, Die Erkenntnislehre, 95-113; A. I. Sabra, "Avicenna on the Subject Matter of Logic," Journal of Philosophy 77 (1980): 757-62; C. E. Butterworth, Averroes' Three Short Commentaries, 103 nn. 1-2.

as "human being." In the same vein, he often speaks of conception as act of understanding the underlying meaning or "intention" (al-ma'nā) words, by which they signify "the reality of the essence of the thing" (haqū dhāt al-shay²). Similarly, in the Latin translation of Averroes' Epitome in bros logicae, the object of conception is referred to as substantia, a te Wolfson suggests translates the Arabic dhāt 'essence.' Ss

It is important to note, however, that *taṣawwur* is not confined to the of grasping simple, uncomposed concepts. Although the most fundamer function of conception is manifested in the knowledge of simple essences a intentions, its activity is primarily defined by negative criteria. This is not say that conception itself is a form of negation or denial, for the description of *taṣawwur* that we have cited indicate clearly that the comprehension of positive conceptual content is always involved. But the distinctive role of conception in human thought is best characterized by its contrast with the act assent. Ultimately, this means that conception applies to any cognitive that does not presuppose the assignment of a truth-value to some proportion. Thus, in his discussion of *taṣawwur* in the *Madkhal*, Avicenna is able classify the cognitive act generated by non-apophantic discourse in general a form of conception: one of the examples of conception he provides is command, "Do this!" (if al kadhā). In the Najāh, moreover, Avicenna tends this point to include those occasions where one entertains the idea

56 Najāh, Q3.9, T7.4. The Ishārāt gives as an example the concept "triangle" (3.16, Ir trans., 49).

38 Averroes, Epitome in libros logicae, 36b: "Ét fuit formatio [i.e. taṣawwur] id, quod est tellectus rei per id quod constituit substantiam suam" See also Wolfson, "Taṣawwur a Taṣdīq in Arabic Philosophy," 479, 491 n. 23. Substantia does not seem a natural translatior dhāt, but Wolfson's suggestion makes sense in the light of the Arabic texts of other philosophy.

The tendency to define the meaning of taṣawwur in negative terms is evident in A cenna's frequent use of an emphatic faqai 'only... and no more' at the end of his definitive.g. in Madkhal, 17.7 and 17.11. Similarly, the Ishārāi speaks of "pure conception" (taṣaw sādhi) (3.16); and the Najāh of "conception without assent" (taṣawwur bi-lā taṣdūq) (Q6).

The tendency to define tasawwur in terms of its contrast with tasafiq does not imply that two are in some sense opposed to one another. Rather, it is the result of the simple fact tasawwur is a necessary, but not a sufficient, condition for tasafiq. For this reason, Van Econcern regarding the effect that Avicenna's occasional use of takahīb 'falsification,' has the contrast between tasawwur and tasafiq seems misplaced, since the two concepts are really in opposition to one another in the way that assent and falsification are. For one can, a must, simultaneously conceive of any proposition that one assents to. It is impossible, however to assent to and falsify one and the same proposition simultaneously. On this point, see a Erkennnistehre, 100.

60 Madkhal, 17.9.

someone assenting to the proposition "X exists," without actually confirming that judgement oneself. In the light of the *De interpretatione*'s assignment of non-apophantic discourse to the realm of rhetoric and poetics, these remarks of Avicenna would seem to suggest that it is to *taṣawwur* that we ought to look for an account of the cognitive acts underlying rhetoric and poetics. There are indications, at least in the case of poetics, that Farabī and Averroes sometimes inclined towards such an interpretation of poetic *takhyīl*, and we will examine their positions on this matter in a later chapter. But Avicenna himself shows no such inclination to assimilate either art to the act of conception, nor does such a construal of poetics predominate in the writings of the other two philosophers.

It is thus the notion of taṣdīq that is of central importance in the Arabic philosophers' efforts to give a logical interpretation to the rhetorical and poetical arts. The term taṣdīq is usually rendered as "assent," "judgement," and sometimes "belief." In medieval Latin translations, taṣdīq was sometimes translated as verificatio, (suggesting affinities with Farābī's notion of taṣḥūḥ 'verification'), and sometimes as credulitas or fides.⁶³

It should already be apparent from the contrast of conception with assent that tasdaa is in some way the epistemological counterpart of apophantic discourse. That is, as with apophansis, the defining feature of an act of tasdaa is that it can and must possess some truth-value. However, the Arabic philosophers link assent to the affirmation or denial of the existence of the thing conceived, or to the judgement that it exists in a certain state, with certain properties: "Assent in general is for a person to believe of a matter about which he makes a judgement that it is, in its existence outside the mind, just as it is believed to be in the mind." From this characterization, it

fied by a word, cf. Madkhal, 17.7-8: "When [the thing] has a name which is pronounced, meaning is represented in the mind" (idhā kāna la-hu ismun fa-nuṭiqa bi-hi, tamathh ma'nā-hu fi al-dhihn); and 17.11 (taṣawwur ma'nā hadhā al-qawl). See also Ishārā, 3.16 (i nā bi-ma'nā ismin), and 4.1 (yutaṣawwur ma'nā hadhā al-qawl). See also Ishārā, 3.16 (i nā bi-ma'nā ismin), and 4.1 (yutaṣawwur ma'nā-hu); and Najāh, Q60.13, T112.6 (taṣawwur ma'nā mā). Fārābī speaks of conceptions which are produced by a single expression that sự fies the thing, but says that these sorts of conceptions are the least perfect; perfect concept requires a definition as its cause (Kitāb al-burhān), 45.4-5.

Se Avertroes Enitome in librus logicas 36h; Els little careactical lieuterana librus logicas 36h; Els little little lieuterana librus logicas 36h; Els little li

Najāh, Q60.13-14, T112.6-8: "And sometimes there is conception without assent, such as when someone conceives of the words of someone saying 'The void exists,' but he does not assent to it." On this point cf. Goichon, Lexique 191, s.v. taşawwur. Heinrichs, "Die antike Verknüpfung," 290 refers to this Avicennian point to explain some anomalous features of Fārābī's doctrine of poetic takhvil.

See chap. 6 below, 185-92.

⁶³ For the Latin translations see Goichon, Lexique, s.v.; Wolfson, "The Terms Taşawwur and Taṣɗaç," 490; and Van Ess, Die Erkenntnislehre, 95. Verificatio appears in Averroes' Epitome in libros logicae, 36b-37a. Credulitas appears to translate taṣɗaç in Fārābī's Didascalia in Rethoricam Aristotelis, ed. M. Grignaschi, in Deux ouvrages inédits sur la Réthorique. See 156 n. 5, and Grignaschi's index, s.v. credulitas (254).

On the relation of tasdiq to Aristotle's ἀποφαντικὸς λόγος see Wolfson, "The Terms Tasawwur and Tasdiq," 483-84, 490.

Farābī, Kitāb al-burhān, 20.4-5; Vajda, "La théorie de connaissance chez Saadia," 391. In the Kitāb al-alfāz, Farābī speaks of "assent to the existence of that which has been conceived or understood" (al-taṣāfa bi-wujūd mā taṣawwara-hu aw ſahima-hu) (87.3). The 'Uyūn al-masā'il gives as an example of the object of assent the existence of the heavens (kawn al-samawāt) (56.4). In the Madkhal, Avicenna indicates the judgemental aspects of assent in his remark that "assent is when there occurs in the mind a relation between this form [which has been conceived] and the things themselves which correspond to it" (al-taṣāfa huwa an yaḥṣala fī al-dhihn nisbah hadhihi al-ṣūrah ilā al-ashyā' anfas-hā anna-hā muṭābaqah la-hā) (17.16-17). Cf. Averroes, Epitome in libros logicae, 36b: "Et verificatio [=taṣāfa] est intellectus rei, per id quod dicitur ipsius dispositio quaedam: et est id, de quo quaeritur ut plurimum dictione, utrum, sicut

is obvious that assent presupposes conception, although conception does presuppose assent:

And the second [way of knowing things] is for conception to be accompanied t assent (ma^ca al-taṣawwuri taṣdīqun). And this occurs, for example, when it is to you, "Every white is an accident." For from this conception, you acquire only the mere meaning of the statement, but rather you [also] believe (ṣadda that it is so. As for [those cases] when you doubt whether it is so or not, ther have formed a concept (taṣawwarta) of what was said—for you cannot doubt you have neither formed a concept of nor understood. However, you have no sented to it yet. For every assent is accompanied by a conception, but not the verse. And the conception of the likeness of this meaning causes there to be ent in your mind the form of this construction, and of those things from which composed, such as "the white" and "the accident." And in assent there occu the mind a relation of this form to the things themselves to which it correspon

One fundamental aspect of the distinction between conception and as remains to be examined. This aspect is of particular importance for the derstanding of the context theory, since it helps to explain why the Ar philosophers generally preferred to associate the ends of rhetoric and po with taṣdīq rather than with taṣawwur. One of the purposes of includi consideration of the taṣawwur-taṣdīq dichotomy in introductory discussion the purpose of logic is to provide an epistemological foundation for the principal pillars of Aristotelian logic, the definition and the syllogism. In cordance with this aim, the purpose of the definition comes to be ident as the production of an act of conception, whereas the syllogism comes t assigned the role of causing assent to the truth of a proposition:

But what is useful among the things that are known is either a composition v is directed towards the delimiting [of a meaning] (al-taqvīd),⁶⁷ and this is in the quisition of conception through definitions, descriptions, and what takes

est dictum nostrum, utrum vacuum sit: et cum dictione, an, ut est dictum nostrum, an mi sit novus."

66 Avicenna, Madkhal, 17.10-17. Cf. Farabī, Kitāb al-alfāz, 87.17-18.

It does not seem to me that this implicit connection between psychological assent and I judgement need represent a confusion of two meanings that collapse into one "impercept as is suggested by Van Ess, *Die Erkenntnislehre*, 99–103. Rather, the Islamic philosopher cussions of the term tasdiq seem consciously to embody the view that any act of judgeme its very nature implies an element of assent. On such a reading, tasdiq is extensionally elent to judgement, but intensionally distinct from it; hence it does not represent an alter vocabulary that takes on new meaning owing to its etymological associations, but a new i into the epistemological implications of the logical notion of judgement.

Literally "tying down," "binding," "confining," "restricting." This is not a technical but it conveys nicely the idea of distinguishing what is essential to one concept from what sential to any other. One is reminded of the aspect of distinctness in the Cartesian stand "clear and distinct ideas." See Principia Philosophiae, vol. 8, pt. 1 of Oeuvres de Descart. Charles Adam and Paul Tannery (Paris: Vrin, 1896): "Claram voco illam, quae menti denti praesens et aperta est: sicut ea clare a nobis videri dicimus, quae, oculo intuenti pri tia, satis fortiter et aperte illum movent. Distinctam autem illam, quae, cum clara sit, ab bus aliis ita sejuncta et praecisa, ut nihil plane aliud, quam quod clarum est, in se continea emphasis added).

place; or a composition which is by way of predication (al-khabar),68 and this is concerning the acquisition of assent by means of syllogisms, and what takes their place. And from this mode of composition the genus of statement called apophantic (jāziman) arises.69

It is clear that the association of syllogistic with the production of assent, as explained in the preceding text, is the principal motivation for the Arabic philosophers' classification of both poetics and rhetoric among the assent-evoking arts, despite the incongruities that this entails for the non-apophantic status assigned to rhetoric and poetics in the *De interpretatione*. Since the Arabic philosophers accept the interpretation of the context theory that considers both rhetoric and poetics to be syllogistic arts, and since the purpose of the syllogism has been linked to the production of assent, the cognitive goals of rhetoric and poetics must also be defined accordingly, in terms of the production of *taṣdīq*.

However, it is also clear that the overall epistemological characterization of assent that has emerged from the texts we have examined does not seem especially well suited to an appreciation of the autonomy of the logical aims of rhetoric and poetics. For a dominant theme to this point seems to be that assent is always accompanied by a judgemental act, as manifested in the acceptance of propositions possessed of determinate truth-values. And as we have observed in the Alexandrian discussions of the context theory, such a focus upon logic's concern with truth-values tends to coincide with the devaluation of the logical aims of all the non-demonstrative arts, particularly rhetoric and poetics. However, there is another side to the epistemology of assent not explicitly emphasized in the Arabic philosophers' official accounts of the the taşawwur-taşdīq couplet, which suggests that the focus of taşdīq is not limited merely to the production of an accurate judgement regarding the truth or falsehood of a proposition.

To a large extent this aspect of assent is reflected in the semantic overtones of the term tasdiq itself. For although the Arabic root of this term, \$DQ, has the basic meaning of "truth" or "veracity," which would appear to strengthen the connection between assent and truth-values, the term tasdiq itself is the verbal noun of the second derived form, used in its estimative or evaluative sense. Hence it modifies the basic meaning of the root by adding to it the notion of deeming something to be true, of believing in, and assenting to, some proposition. The connotations of the term are thus focused away

⁶⁸ Usually the grammatical, not the logical, term for predication. For links between the grammatical terms inshā and khabar and the logical couplet of tasawwur and tasāīa, see Van Ess, Die Erkenntnislehre, 98.

⁶⁹ Avicenna, ^cIbārah, 31.16-32.2. Other texts which associate conception with the definition and assent with the syllogism are Avicenna, Najāh, Q3.8-11, 60.16-18; T7.3-5, 112.11-113.1; Madkhal, 18.2-9; Ishārāt, 4.5-8, trans. 49; Fārābī, Kitāb al-alfāz, 87.11-88.1; Kitāb al-burhān, 45.4-5, 84.19; Averroes, Epitome in libros logicae, 36b-37a.

⁷⁰ We will see below (chap. 6, 181-85), however, that poetics is considered an assentive art only in an analogous sense.

from the objective truth of the proposition which is known, towards knower's act of evaluating and accepting it as true.71

This subtle shift in emphasis from the veracity of the cognitive act representation of some object to the way in which the cognition itself is cepted by the knower, is reflected in the Arabic philosophers' various eff to locate the genus to which the act of assent belongs. In Avicenna's Poe commentary of the Shifa, the genus of assent is identified as "yielding" "acquiescence" (idh'an). We are also told in this text that the act of as shares the genus idh'an with the logical end peculiar to poetics, that causing acts of the imaginative faculty (takhyīl). We will disregard for moment Avicenna's description in this text of the important concept of ia yīl. As for tasdīq, Avicenna here characterizes it as "an acquiescence b cept that the thing is as it is said to be." Assentive acquiescence is furt specified by Avicenna in causal terms, as an act produced by the property tional content of the utterance, "the condition of that which is spoken abu rather than by the attraction of the words themselves, which produces in: native yielding.72 Similarly, in the Qiyas Avicenna states that the endp duced by all the logical arts but poetics may be called "contentmen" "satisfaction" (al-qanācah). For when the mind assents to a conclusion rived at by one of these logical methods, it indicates some degree of cogit satisfaction that the proposition accepted is in fact a true one.73 This a point is reflected in the contrast, again between the production of imail tion and assent, that Avicenna provides in his short Poetics commentary the Kitāb al-majmū^c (Compilation). Here producing an imagining is dit guished from assent, in that unlike assent, it does not seek to producea "conviction" (i'tiqād) as to the truth of the statements that have been pressed.74 In all these passages, an essential relation between the act of asc and the assignment of a truth-value to a proposition is certainly ackny edged. But clearly there is as much emphasis upon the aspect of assent tht reflected in the knower's subjective acceptance of a statement as true as te is upon the fact that assent implies that the proposition corresponds oic tively to some real state of affairs.

In the texts of Farabī as well we can glean some indications of the sule tive aspects of assent and notions related to it. In the Kitāb al-alfāz, fore ample, Farabi determines the number of divisions within the syllogistic ar considering how many distinct types of "compliance of the mind" (inqiyāle dhihn) can be identified. He then goes on to specify the type of complia embodied by each of the five syllogistic arts-demonstration, dialectic, rhetoric, sophistry, and poetics.75 Farabi's notion of compliance appears to be broader than the notion of assent, since it includes the imaginative acceptance produced by poetic syllogisms. Its closest parallel in Avicenna's scheme would appear to be the generic notion of idh'an 'acquiescence.' For like Avicennian acquiescence, Farabi's compliance has the effect of affirming the importance of the subject's acceptance of some proposition over and above the actual truth of what he thereby believes.

Finally, we should note the Islamic philosophers' appropriation of the Mu^ctazilite concept of the "acquiescence of the soul" (sukūn al-nafs), either as a synonym for tasdīq, or as a synonym for one of its species, namely, rhetorical assent.76 While Farabī tends to confine his use of the phrase to the latter application, and perjoratively so, some have suggested, Avicenna occasionally employs sukūn al-nafs to describe the mental acceptance of a belief simply, a use that seems natural in the light of his designation of assent as a form of yielding to a belief $(idh^c \bar{a}n)$.

Explications of tasdīq such as these, which recognize the dependence of assent upon the interplay between the knower and the object of knowledge, play an important role in facilitating the incorporation of rhetoric and poetics into the realm of logic. The reason for this is a simple one: assent, insofar as it is a form of compliance, acquiescence, yielding, or satisfaction, partakes not only of a cognitive, apprehending act, but also of an affective, voluntary one.78 These voluntaristic aspects of assent imply that the central act towards which

⁷¹ Cf. Van Ess, Die Erkenntnislehre, 101.

Oivās, 7.16. The term al-qanā'ah, used here as a generic term equivalent to tasá most often used to mean "persuasion" or "being convinced," and indicates the act of ae proper to rhetoric. For a fuller discussion of this equivocal use of the term, see chap. 4 by

⁷⁴ Kitāb al-majmū^c, aw al-hikmah al-^cArūdīyah fi ma^cānī kitāb al-shi^cr (Compilatic « philosophy for Arudiyah: on the meaning of the Poetics), ed. M. Salim Salim (Cairo: Dia Kutub, 1969), 15.7; 16.1-2.

⁷⁵ Kitāb al-alfāz, §§52-53, 96.1-97.13. The notion of compliance of the mind also occurs in the context of a discussion of the history of philosophy in the Kitāb al-jadal, 60.4, to describe the state of the masses when they are instructed by a philosopher who uses rhetorical or dialectical methods: "So these beliefs are established in the souls of those listening to him, and their minds comply to them (wa-inqadat adhanu-hum la-ha)."

⁷⁶ See Van Ess, Die Erkenntnislehre, 75-77, for the Mu^ctazilite background.

See Van Ess, Die Erkenntnislehre, 101; Zimmermann, Introduction to Al-Farabi's Commentary and Short Treatise, cxv-vi. In the Kitāb al-burhān, Fārābī explicitly identifies sukūn alnafs as the lowest form of assent (20.8, 18-19, 21.9-12; Vajda, "La théorie de connaissance chez Saadia," 391-92), and the phrase is associated with rhetoric in the Kitāb al-jadal as well. At 17.12-13, it is used to describe our acceptance of the testimony of trusted authorities, and at 71.12-72.7, it is used to describe the act of assent proper to the masses (see also Vajda, "La théorie de connaissance chez Saadia," 378, 388-89). Cf. Iḥṣā' al-culūm, 72.11-12, Palencia, 139. 10-12 (where dhihn replaces nafs), and Averroes, Jawāmi al-khatābah, 169.6-7. Avicenna uses the phrase more generally as a synonym for assent in the psychological chapters of the Shifa', and in the parallel discussions of the Najāh. See Shifa', Nafs, ed. Fazlur Rahman, Avicenna's Psychology, Being the Psychological Part of Kuāb al-Shifa' (London: Oxford University Press, 1959), 222.11; critical edition of the medieval Latin translation by Simone Van Riet, Avicenna Latinus: Liber de anima, seu sextus de naturalibus, 2 vols. (Leiden: Brill; Louvain: Peeters, 1968, 1972), 2:104 (in this case the Latin loses the flavour of the reference to sukūn al-nafs); Najāh, Q182.15, T373.1, trans. Fazlur Rahman, Avicenna's Psychology (Oxford: Oxford University Press, 1952; reprint Westport, Conn.: Hyperion, 1981), 55; and in the Ishārāt, 57.14, Inati trans., 121.

Cf. the remarks of Madkour, L'Organon d'Aristote: "Toutefois, al taçdîq désigne aussi une sorte d'affirmation; c'est un jugement accompagné d'adhésion de la part de celui qui juge. Ainsi, pour Ibn Sînâ comme pour Spinoza et Taine plus tard, l'acte de juger implique une certaine conviction" (54).

FRAMEWORK OF THE CONTEXT THEORY

syllogistic methods are aimed includes more than the mere understanding the ontological status of some object as it is reflected in a proposition. It distinctions among the syllogistic arts must accordingly be expanded to clude not only criteria of truth and falsity, and the modality of the relative between subject and predicate within propositions, but also a recognition the bearing of the knower's mode of cognition upon the logical aims of eart. Most importantly for our present concerns, however, the voluntarial overtones of assent necessitate an important modification of the suggest that poetics and rhetoric are distinguished by their appeal to the affective pects of language, as opposed to its cognitive functions. Insofar as assent plies not only some objective judgement about actual states of affairs, also a willful adherence to that judgement, the separation of affective intellective goals in the use of language and argument will necessarily be decisive.

However, the Arabic philosophers did not always take advantage of opportunity that the doctrine of tasdiq offers for narrowing the gap between theoric, poetics, and the demonstrative method which remains, in their verthe focal point of logic. As we now turn our attention to these philosoph various schemata for differentiating one form of logical reasoning from other, it becomes clear that the legacy of the Alexandrian versions of context theory still overshadows, from time to time, the more positive dencies that have emerged from the foregoing analysis of the logical epistemological structures of assent.

C. MATERIAL AND FORMAL DISTINCTIONS AMONG THE LOGICAL ARTS

1. Logic as Syllogistic

As we have had occasion to emphasize throughout the course of our inv gation, the Alexandrian commentators' one-to-one assignment of a spe truth-value or modality to each logical art represented one of the most nificant hindrances to the context theory's potential to provide a co philosophical interpretation of the rhetorical and poetical arts. In the Arabic tradition, some remnants of this scheme are still in evidence, but in general a more sophisticated theory of the nature of logical distinctions replaces the Alexandrian system, and poetics and rhetoric are thereby freed from some of the more negative overtones that had previously been associated with their aims.

The development by the Islamic philosophers of an alternative solution to the problem of how to divide and classify the logical disciplines seems to be closely linked to their resolution of another key issue in the Alexandrian versions of the context theory, that of the degree to which all of the logical arts, including rhetoric and poetics, are syllogistic in their structures. In this regard, there is general agreement among the Islamic philosophers that both rhetoric and poetics are syllogistic in some way, although there remains considerable diversity in the syllogistic interpretation provided for them.

The decision to accord syllogistic status to rhetoric and poetics once they have been accepted into the *Organon* may have been facilitated by Aristotle's own confidence that the syllogistic structures he had discovered and systematized were universally present in all processes of human reasoning. This is the view announced by the Stagirite in the rather notorious passage of *Prior Analytics* 2.23: "We must now state that not only dialectical and demonstrative deductions are formed by means of the aforesaid figures, but also rhetorical deductions and in general any form of persuasion, however it may be presented. For every belief comes either through deduction (συλλογισμός) or from induction."

The apparent boldness of Aristotle's claim is easily dismissed by modern logicians as obsolete, given the advent of mathematical logic. Fortunately, in their attempts to apply this bold assertion to rhetorical and poetic discourse, the Islamic philosophers generally appeal to the broad definition of the syllogism provided by Aristotle at 24b18–20: "A deduction $(\sigma \nu \lambda \lambda \sigma \gamma \iota \sigma \mu \delta \sigma)$ is a discourse $(\lambda \delta \gamma \sigma \sigma)$ in which, certain things being stated, something other than

⁷⁹ On the surface, this perspective may appear to represent a confusion of logical and chological categories. Such a criticism is implied in Inati's remark that since assent for Avic can be true or false, it is problematic whether it should be considered an act of kno (Introduction to Remarks and Admonitions, 5 n. 21). Such a charge can be mitigated, I this recognizing that Avicenna does not claim that assent itself actually determines validi soundness. Rather, assent is the end towards which all arguments, valid and sound or no directed. Hence, while the Islamic philosophers claim that all knowledge must consist of a of either assent or conception, they do not, so far as I can see, claim that all acts of assen resent true knowledge. And only if this were the case would Inati's question pose a proble Avicenna and the other philosophers.

One reason for the Arabic philosophers' preoccupation with the division of knowledge assent and conception seems to be that they view logic as primarily an instrumental sc and so tend to relate logical concepts to the epistemological ends that they serve. But I quite a different matter from determining formal logical criteria themselves on the ba their psychological causes.

⁸⁰ Prior Analytics 2.23.68b9-14 (1:109). On this point, cf. Galston, "Al-Farabi et la logique aristotélicienne," 216 n. 75; Black, "The 'Imaginative Syllogism,' "242-43. Farabī echoes Aristotel's confidence regarding the syllogism in the discussion of the Prior Analytics in \$6 of the Falsafah Aristūtālis, 74.5-17, Mahdi trans., 84: "He made known the mode of using these rules in every rational art that uses reasoning and investigation (whichever art this may be, whether it uses little or much reasoning and investigation); and that every rational art... uses some of these rules. Further, he enumerated everything used in any investigation and reasoning in every rational art. He thus explained that all the rules used in reasoning and investigation are included in what he had enumerated in this book of his. And he made it known, further, that every argument in every art that employs instruction and árgument (whichever class of argument it may be, whether the argument is intended for instruction, or sophistry and hindering instruction) proceeds by using only these rules or some of them. He placed these rules in a book he called in Greek Analytica..."

Modern expositors of Aristotle's logic point out the obvious falsehood of Aristotle's claim, since there are many kinds of inference that cannot be cast in syllogistic form, e.g. the very laws that govern syllogistic validity itself. On these points see Patzig, Aristotle's Theory of The Syllogism, 132-37; Lynn E. Rose, Aristotle's Syllogistic (Springfield, Ill.: Charles Thomas, 1968), 55-56; 89; Jonathan Barnes, Aristotle (Oxford: Oxford University Press, 1982), 31.

what is stated follows of necessity from their being so."82 This definition do not in itself bear directly upon the technical apparatus of the syllogism, b seems rather to define the discursive process underlying any act of form deduction.83

It would, however, be misleading to suggest that all the Islamic philos phers with whom we are concerned are content to leave the issue of the sy logistic status of rhetoric and poetics at the level of asserting that some kin of inferential process underlies rhetorical and poetic discourse. The predominant view, as in the Alexandrian tradition, is that all the logical arts some way share in the formal properties of the syllogism, and are distinguished from one another only materially, that is, by the kinds of premises that they usually, or most properly, employ. In what follows, we will examinate this view primarily as it is developed by Avicenna, since his discussion is to most explicit and systematic. But first, since it has recently been argued the Farabī implicitly rejects the syllogistic status of rhetoric and poetics in the most sophisticated discussions of the logical character of the two arts, som thing must be said in defense of our claim that all of the major Islam philosophers, including Farabī, subscribe to the view that there are indefive distinct syllogistic arts.

In her recent consideration of Farābī's adherence to the context theo Myriam Galston has claimed that the Farābīan logical corpus shows eviden of three distinct teachings on the logical character of rhetoric and poetic (1) that both are syllogistic (represented in Farābī's Introductory Epistle logic, Al-Tawti'ah); (2) that both are logical, but not syllogistic (represent in the Iḥṣā' al-ʿulūm); and (3) that rhetoric, but not poetics, is syllogis (represented in the Kitāb al-ḥurūf). In our view, however, there is insuf cient evidence to support Galston's identification of the second and third p sitions, although it is true that in some works, most notably the Kitāb al-shi

Fārābī does not commit himself to a syllogistic view of poetics, though neither does he explicitly reject such a view.85

Galston only mentions the third view in passing, but from the passage she cites from the Kitāb al-hurūf, it appears that the reasoning behind her interpretation is that in §§140–142 of this work, poetics is omitted from Fārābī's account of the historical development of demonstration out of the imperfect methods of rhetoric, sophistics, and dialectic. However, that a poetic syllogism played no role in the historical evolution of the syllogism into its most perfect form does not of itself prove that there is for Fārābī no such thing as a poetic syllogism. More importantly, Galston appears to overlook the fact that whatever the implications of the Kitāb al-hurūf's view of the history of logic, Fārābī explicity includes poetics among the ranks of the syllogistic arts in §129 of the same work.⁸⁶

Galston's strongest claim, however, is that the fivefold division of syllogisms occurs primarily in the Introductory Epistle on logic $(Tawti^2ah)$, where Fārābī treats syllogistic theory in a cursory and idiosyncratic manner. The $Ihṣ\bar{a}^2$ $al^{-C}ul\bar{u}m$, though often believed to concur with the Introductory Epistle, actually intimates that rhetoric and poetics, though logical, are not truly syllogistic. 87

Before we discuss Galston's interpretation of the $Ih_s\bar{a}^{\gamma}al^{-\zeta}ul\bar{u}m$, we should observe that Galston does not mention a number of other logical texts which also refer explicitly to poetic and rhetorical syllogisms, among them the $Kit\bar{a}b$ al-alfaz and the $Qaw\bar{a}n\bar{i}n$ al- $shi^{\zeta}r$.*8 More importantly, however, the evidence she presents regarding the Introductory Epistle and the $Ih_s\bar{a}^{\gamma}$ al- $^{\zeta}ul\bar{u}m$ seems to be inconclusive.

First, Galston argues that the Tawti'ah is only able to include rhetoric and poetics among the syllogistic arts because it employs an uncustomary conception of the syllogistic arts, and thereby abrogates the traditional distinction between theoretical and practical science. Galston refers to the use of a distinction in the Introductory Epistle between the practical arts, which may

New Oxford trans., 1:40. The applicability of syllogistic theory to the *Rhetoric* has cle Aristotelian roots, since the parallels between the enthymeme and the syllogism, and betwee the example and the induction, are made explicit in various places in Aristotle's works, the example and the induction, are made explicit in various places in Aristotle's works, the Prior Analytics 2.27.70a10–11; *Posterior Analytics* 1.1.71a9–11; *Rhetoric* 1.2.1356b2–5. But the tempts of a number of scholars to discover some hint of the poetic syllogism in the Aristotel corpus, such as those outlined by Schoeler, "Der poetische Syllogismus," 82–84, seem to me fundamentally misguided. In the first place, the poetic syllogism must be explained, not an isolated doctrine, but as part of the attempt to make philosophical sense of the context tory as a whole. Moreover, in neither the Alexandrian nor the Islamic discussions of the context theory is there any indication that the poetic syllogism is meant to play an exceptical role we therefore the *Poetics* itself. In fact, the doctrine of the poetic syllogism plays a very minor of in Arabic *Poetics* commentaries, and receives its fullest development in texts dealing with top proper to the concerns of the *Prior*, and sometimes the *Posterior*, *Analytics*.

proper to the concerns of the *Priot*, and sometimes this passage as a simple description ⁸³ It is interesting that Barnes himself views this passage as a simple description "deductive inference," but does not see how this might mitigate the apparent audacity of A totle's remarks in 2.23 (*Aristotle*, 32).

^{84 &}quot;Al-Farabi et la logique aristotélicienne," 203. In effect, though she does not note ti Galston is claiming that Farabī vacillates between adherence to the three- and five-fi schemes that divided the Greek commentators (see above, pp. 36-44); Galston's third categories ponds roughly to Simplicius's omission of poetics from his enumeration of the syllogical arts (see above, 17 n. 2, 35 n. 46).

The Kitāb al-shi'r is edited by Muhsin Mahdi in Shi'r 3 (1959): 90-95; and by Muūammad Salīm Sālim, as Jawāmi' al-shi'r, along with Averroes' Talkhūş kitāb al-shi'r (Cairo: [Al-Majlis al-A'la], 1971.

Kitāb al-hurūf, 142.13-14: "Of the syllogistic arts, the art of poetics arose among them on account of what there is in human nature of the preference for order and arrangement in all things." For the problem of poetics' place in Farabi's history of philosophy, see n. 39 above.
"Al-Farabi et la logique aristotélicienne," 203-6.

Kitāb al-alfāz, 98 (maqāyīs al-shi rīyah); Qawānīn al-shi r, 268.7-9 (poetic tanthīl is identified as a potential syllogism used in poetics), and 268.10, 15 (poetics is listed in Fārābī's division of qiyās). Although poetics is not explicitly mentioned in them, two passages from the Kitāb al-jadal which refer to five syllogistic arts require that a poetic syllogism be assumed. See Kitāb al-jadal, 13.15-14.1, where the genus of "method" (tarīq) is said to comprise all five syllogistic arts; and 58.16-17, where five syllogistic arts are again mentioned. None of this is meant to deny that the syllogistic status of poetics is the most tenuous among the non-demonstrative arts, but simply to show that despite the difficulties, Fārābī apparently felt that it was useful to continue to include poetics among the syllogistic arts, even in cases where poetics itself was not of primary concern.

use syllogisms, though not as their final end, and the syllogistic arts, in whi the use of the syllogism itself is the final goal sought by the arts.

Contrary to Galston's claim, however, there is nothing in this notion syllogistic that "transcends traditional frontiers." Farabī appeals here to well-known Aristotelian principle of distinguishing arts according to whetl the end aimed at by the art is actually immanent in the art, or transcends proper performance of its activity. In the practical and productive a knowledge, and the syllogisms that produce knowledge, are used by the art but they function only as his tools, not as his ultimate goal. The logician, contrast, at least qua logician, studies the syllogism for its own sake, and knowledge of the syllogism is the final cause of his art. The distinction Far is sketching is simply that of the difference between pure and applied log known by the later Latin scholastics through the contrast between log utens and logica docens, and solidly rooted in Aristotelian soil.90

As to the Ihsa al-'ulum itself, Galston similarly focuses upon the alleg nuances of Farabi's choice of expressions, noting that the text never explic applies the adjective "syllogistic" to all five of the non-introductory log arts, but rather, only claims that the "final activity" of all five is to "emp the syllogism in discourse." Moreover, Farabi's assertion, at the end of discussion of these five arts, that "these are the kinds of syllogisms, and sy gistic arts, and types of discourse" used in verification, is read by Galston nuanced effort to assert a distinction between syllogisms, syllogistic arts, types of discourses, the aim of such a distinction being to imply that poe and rhetoric may be included among syllogistic discourses, and perhaps sy gistic arts, but not among syllogisms.⁹¹ But both these readings seem unna ral, and convincing only if one has already decided that a syllogistic interp tation of rhetoric and poetics is implausible. In the first passage, it see more plausible to claim that, by this turn of phrase, Farabi intends no m than to allow for the obvious fact that syllogistic arts include the use of ot things besides syllogisms (which is equally the case with dialectic, demons tion, and sophistry), even though the use of the syllogism is in each case ultimate aim of the art. As to the second passage, it seems that, barring plicit indications to the contrary, the "and" separating the three phrase more naturally read as explicative rather than as disjunctive. That is, Faral alluding to the underlying principle by which he has discerned that there five distinct syllogistic arts. For there are five types of syllogisms, five type discourses composed from such syllogisms, and hence, five syllogistic a each one dedicated to the study of one type of syllogism, and one type of

Galston also draws our attention to an anomaly in the first passage does seem puzzling in the light of Farabi's repeated enumeration of rhet

and poetics among the syllogistic arts. For when he begins his discussion of the parts of the syllogism, he declares that there are eight parts of logic, defending this claim by noting that there are three species of syllogisms and discourses that are used to verify belief, and five arts that use the syllogism, once perfected by these three arts, in discourse. These latter five arts are identified, as one might expect, as the demonstrative, dialectical, sophistical, rhetorical, and poetic arts.92

Galston reads the first part of this passage as a denial that poetics and rhetoric have their own syllogisms, even though they are syllogistic arts. Yet Fārābī does not openly state that this is the motivation behind his declaration that there are three species of syllogism. More importantly, however, Galston has not noticed the function of this passage in the discussion of the parts of logic in the Ihsa' al-'ulum: namely, that it introduces the traditional consideration of the parts of logic according to the number of books in Aristotle's Organon. Thus, what we would expect Farabi to refer to in the disputed lines. and what he indeed goes on to enumerate in his outline of the Organon, is not three types of syllogisms, but the three introductory arts of logic that correspond to the Categories, De interpretatione, and Prior Analytics. It is more likely, then, that the "three" here refers not to three types of syllogisms, but to the three parts of logic that deal generally with discourse and the syllogism, prescinding from their use in one of the five syllogistic arts. Admittedly. Farabi's way of describing these three parts of logic here is odd, but Galston's reading seems to make less sense out of the overall thrust of the discussion that follows upon this passage, and overlooks Farabi's generally acknowledged use in this text of the typical format of the Alexandrian prolegomenal literature, of which the discussion of the parts of logic in terms of the Aristotelian corpus is an integral component.93

It seems safe to conclude from the foregoing that there is more evidence that Farabī adhered to the syllogistic interpretation of poetics, or was at worst indifferent to it in some works, than there is evidence that he wished to distance himself from the tradition in this regard. While Galston's study of the Farabian version of the context theory is in other respects a perceptive

^{89 &}quot;Al-Farabi et la logique aristotélicienne," 203 (my translation).

⁹⁰ Cf. our discussion of logic and productive science in chap. 2 above, 26-30.

⁹¹ Galston, "Al-Farabi et la logique aristotélicienne," 205. The two passages occur at al-'ulūm, 79.8-11 and 85.9-10, Palencia, 137.4-9, 140.30-141.2.

⁹² Ihsā' al-culūm, 79.8-9, Palencia, 137. 4-9.

We ought to address as well Galston's claims that the Kitāb al-shi^cr and the Kitāb alkhaṭābah bolster her view of Fārābī's perspective in the Ihṣā' al-culūm. Referring to the discussion of the enthymeme in the latter text, Galston claims that Farabi's assertion that an enthymeme is often syllogistic only at first glance (fi badt' al-ra'y-83.3-4, 85.13-16) is, in effect, a claim that the rhetorical syllogism is not really a syllogism. But all Farabi is saying here is that the rhetorical syllogism need not be sound, nor even valid, from a technical viewpoint. That is a far different matter from claiming that rhetoric is not syllogistic at all, in the sense Galston is arguing in her article. Moreover, such a claim would apply equally, if not more obviously, to sophistry. See for example Kitāb al-jadal, 26.17-27.4, where Fārābī claims, in the context of his discussion of sophistry, that one does not properly apply the term "syllogism" to a formally corrupt argument, though one can use the term of an argument with valid form, but false premises. As to the Kitab al-shi'r, the fact that Farabi omits entirely to mention a poetic syllogism, and speaks only of imitation, is simply inconclusive. It does not testify either to a syllogistic, nor an asyllogistic, view of imitation.

one,⁹⁴ she seems to have fallen prey to the common and natural assumpthat a syllogistic interpretation of rhetoric and poetics is untenable, and the philosopher of Fārābī's calibre would have found a way to break with Alexandrian tradition, even if only implicitly, on this matter. Yet we should not forget that the omission of specific details regarding the manner in who poetics and rhetoric are syllogistic is not an indication in itself that an authas repudiated the syllogistic status of these arts, though it may indicate the does not accord much importance to the issue. In our view, there is an evidence scattered throughout the Fārābīan corpus that the Second Teac did uphold the strongest versions of the context theory, and no explicit dence of any efforts to repudiate it. While Fārābī limits his discussion of etic syllogistic to points of a more general nature,⁹⁵ and is content to fo primarily on the political ramifications of the context theory, he still remain a legitimate entry on the list of Islamic philosophers who subscribe to teaching of a fivefold syllogistic.

However, as we have already mentioned, it is Avicenna among the th major Islamic philosophers who provides the most complete and system; account of the basic principle according to which five syllogistic arts can distinguished, namely, that there is formal identity, but material divers among these five syllogistic arts.

The use of the material-formal principle in the realm of syllogistic oc pies a prominent place in the opening discussion of Avicenna's *Qiyās*. In t passage, the formal unity of logic is explained in terms of a diversity of arts participating in a common structure: "And all of these [logical arts] are l participants, either actually or potentially, in the structure and the form of syllogism. And the majority of their differences are in their matters." The same theme is taken up in greater detail, with respect to each individual a logistic art, in the chapter of the *Qiyās* that treats of the syllogism in gene terms, where the language of participation in the "syllogism qua syllogis (al-qiyās min haythu huwa qiyās) is again used to express the formal, str tural unity of the five syllogistic arts. We will defer our consideration of t more specialized discussion until later, since it is here that Avicenna gives

⁹⁴ Especially impressive is her analysis of the relationship between the Aristotelian to and Fārābī's commentaries on them ("Al-Farabi et la logique aristotélicienne," 192-202), of the political and humanistic aspects of Fārābī's interpretation of the context theory (2 10).

Conversely, Farabī is clearly interested in the formal syllogistic of the enthymeme. chap. 5 below, 157-71.

98 Qiyās, 4.2-3. Cf. Fārābī, Kitāb al-jadal, 13.15-14.1, where method (al-tarīq, al-madhā) al-sabīl) is said to be the ancients' name for the genus that comprises all five of the syllogical-sabīl)

fullest account of his peculiar interpretation of the poetic syllogism. But it should be noted that in this context Avicenna constantly adverts to the broad Aristotelian definition of the syllogism, and uses it in his defense of the syllogistic character of several logical methods, including poetical, dialectical, sophistical, and hypothetical syllogisms. It is clear that in Avicenna's view, the fulfillment of two essential criteria suffices in order for syllogistic status to be conferred: (1) there must be a definite assertion of the premises, in order to fulfill the condition expressed in Aristotle's phrase "when certain things are posited in it" (idhā wuḍi at fī-hi al-ashyā)—hence Avicenna's need to defend hypothetical syllogisms; and (2) there must be a recognizable formal connection between these premises, to fulfill the condition that "something else is entailed by the things posited" (luzima min tilka al-ashyā al-mawḍū ah ... shay ākhir ghayra-hā). Any discourse that manifests both of these properties, whatever its epistemic status, and whatever its intended aim, is, in Avicenna's eyes, a genuine instance of syllogistic argument.

But while Avicenna is adamant that the formal unity of syllogistic is prior to the particular characteristics of any one kind of syllogism, ¹⁰⁰ he nonetheless holds, like Fārābī before him, that the study of the demonstrative syllogism is the "principal division" of syllogistic theory, in that its goals are the ones upon which the general utility of logic is founded. Hence even the abstract study of the formal properties of the "unrestricted" syllogism is in some sense undertaken only for the sake of acquiring skill in the use of demonstration:

And our primary and essential intention in the art of logic is knowledge of syllogisms, and their principal division is demonstrative syllogisms. For the utility of this [art] is for us to acquire through it a tool for the acquisition of the demonstrative sciences. Our secondary intention is knowledge of the other varieties of syllogisms. ¹⁰¹

The assertion of a strong formal unity among the syllogistic arts is obviously an important factor in ensuring that rhetoric and poetics receive a full partnership in the ranks of logic. Nonetheless, the notion that there are certain properties essential to the syllogism qua syllogism, which are participated in by all its species, does not appear to be sufficient of itself to free the context theory from its narrow focus upon demonstrative goals. But when the theme of a shared formal structure is combined with insights into the diversity of as-

⁹⁷ Qiyās, 51.5. Cf. Fārābī, Kitāb al-alfāz, §§54-55, 97.2-100.2. For example: "And comance of the mind is something which encompasses all [five types of syllogisms], in the man that the genus encompasses the species, and in the manner that something unrestricted encompasses what is conditioned, and in the manner that the totality encompasses its divisio (97.3-5).

⁹⁸ Qiyās, 55.11-58.15.

⁹⁹ Ibid., 54.6–7.

¹⁰⁰ Ibid., 4.4-5: "And the science which investigates universal matters is always prior to the science which investigates particular matters. Thus it is not possible for anyone who is not familiar with the syllogism as unrestricted and general to be familiar with a specific [type of] syllogism."

logism."

101 Ibid., 3.8–11. Cf. Fārābī, Ihṣā³ al-ʿulūm, 89.7–9, Palencia, 143.10–14: "And the fourth part [of logic—i.e. demonstration] is the strongest, surpassing [the rest] in dignity and authority. And logic only seeks its primary intention in this fourth part, the remainder of its parts being made only for the sake of it", Didascalia in rethoricam, 212.11–12: "... patet quoniam liber Demonstrationis, per se et primo, directivus est in scientiis." See also Kitāb al-alfāz, 99.13–16.

sent, the demonstrative standard begins to give way to a greater recognit of the plurality of legitimate syllogistic aims.

2. The Basis for Material Distinctions

The formal unity of the syllogistic arts, as expressed in their orientation wards demonstrative goals, led us to the threshold of a familiar epistemological cal problem common to both the Islamic and the Alexandrian exponents the context theory. The material diversity among the syllogistic arts is the cus of an even more fundamental problem, that of determining the criteria which epistemological distinctions should be expressed in logical terms. this context too, there is evident a direct link to Alexandrian doctrines, or tering this time on the Alexandrian penchant for assigning determinate tru values and modalities to the individual logical arts.

Of all the issues that we have discussed thus far, this is the first to rise to an explicit polemic within the Islamic philosophical tradition, w manifests itself primarily in the logical writings of Avicenna. In both the cussions of the Qiyas and of the Isharat, we find repeated a curt, but phatic, dismissal of one method for characterizing the differences amount the five classes of syllogistic premises:

As for what is said to the effect that premises are either necessary, and these demonstrative [premises]; or most possible, these being those [premises] that dialectical; or equally possible, these being rhetorical; or least possible, these being rhetorical; sophistical; or impossible, these being poetical—you should not pay any atter to this, nor give any consideration at all to these divisions. 102

There is an obvious affinity between the scheme which Avicenna here reju and the modal and truth-value assignments popular among the late G commentators. But the Arabic tradition too contains some noteworthy es ples of the use of such principles of classification, and Avicenna him seems to have subscribed to this scheme in his early Maqalah fi al-(Compendium on the soul).103 Similarly Fārābī, in the Qawānīn al-shi'r, vides his reader with a series of divisions of the subject-matter of the lo arts in which truth-value criteria figure prominently. In what follows, we examine Farabi's discussion in the Qawanin al-shi'r as an exemplar of doctrine which Avicenna was later to reject, in an effort to attain a bette derstanding of the inherent difficulties in this approach. A caveat is in of however, for Farabī himself does not consistently profess the truth-vi modal classification of the logical arts in all his works. While in the extar rābīan corpus there is not, as in the case of Avicenna, an explicit repudi

Landauer, "Die Psychologie des Ibn Sînâ," 361.14-19; see above, chap. 2 n. 60.

of the doctrine, it is possible that Farabi's silence elsewhere indicates that he too may have come to see the limitations in the doctrine, and was led to reject it, or to supplement it with other considerations. 104

It is the third of the Oawanin al-shi'r's three divisions of the subjectmatter of logic to which criticisms such as Avicenna's are most clearly applicable. In this division, Farabī takes as the generic class to be divided statements or syllogisms—the two are interchangeable insofar as the character and truth-value of the statements contained in any syllogism determine the character and truth-value of the syllogism itself, and its conclusion:

Syllogisms, and statements in general, can be divided in another way. For statements are said to be absolutely true in all respects, or absolutely false in all respects, or true for the most part and false for the least, or the opposite of this, or equally true and false. And that which is absolutely true in all respects is the demonstrative, what is true for the most part is the dialectical, what is equally true [and false] is the rhetorical, what is true for the least part is the sophistical, and what is absolutely false in all respects is the poetical. 105

This system for distinguishing the syllogistic arts differs slightly from that upon which Avicenna heaps his disparagement, in that simple truth-value assignments, qualified by the frequency of their applicability, are replaced in Avicenna's texts by the modal concepts of necessity, possibility, and impossibility. As we saw in the previous chapter, both truth-value and modal formulations for material logical distinctions occur interchangeably in the Alexandrian commentaries. 106 Indeed, the equivalence of the two sets of formulations seems quite obvious: necessary statements are absolutely true in all respects, impossible statements are absolutely false in all respects, and possible

¹⁰² Qiyās, 4.7-11; cf. Ishārāt, 81.2-5, Inati trans., 149: "Do not pay attention to what ha said, namely that the demonstrative syllogisms are necessary, that the dialectical ones ar sible in the majority of cases, that the rhetorical are possible in equal cases, that they neither inclination nor rarity, and that the poetical ones are false and impossible. This the [proper] consideration; nor did the father of logic [i.e. Aristotle] indicate it."

While heeding this important caveat, it is equally necessary that we do not simply assume that Farabi's development is exactly mirrored by Avicenna's, and that the Qawanin al-shi'r thus represents an early position that was later abandonned. Schoeler, "Der poetische Syllogismus," seems by times to make this assumption. He admits that the truth-value scheme which was popular among the Alexandrians is occasionally represented in Farabi's works, but suggests that Farabi gives up the view in the Ihsa al-culum and the Kitab al-shi ("Der poetische Syllogismus," 53-55). However, this is somewhat misleading, since it implies that there is definite evidence in these texts that Farabi has repudiated the views of the Qawanin al-shir. This is not, however, the case, as Schoeler himself later seems to admit (74). In the absence of a reliable chronology of Farabi's works (even a "relative one," pace Heinrichs, "Arabische Dichtung," 129), it seems best to refrain from any speculation about Farabi's ultimate position, and simply to focus on the philosophical issues that confront the viewpoints presented in various Farabian

Qawānīn al-shi^cr, 268.10-15 (my translation); cf. Risālah fī mā yanbaghī an yuqaddama qabla ta allum al-falsafah, 52.8-15. The truth-value division of premises also occurs in the Kitāb al-khatābah, 87.12-15, although here Fārābī does not assign a determinate truth-value to the premises of the individual logical arts.

¹⁰⁶ The truth-value scheme is found, for example, in Philoponus, Elias, and the Anonymous Heiberg author; the modal scheme in the Brandis scholiast on the Prior Analytics; and the collation between modal and truth-value assignments in Ammonius's Prior Analytics commentary. See chap. 2 above, 36-43. In the Islamic tradition, Farabi generally uses the language of truth and falsehood in the texts we have cited, whereas Avicenna prefers the modal terms of necessity and impossibility in the repudiated Magalah fi al-nafs.

statements are those in which there are varying admixtures of truth and fals hood.

In fact, it is somewhat misleading to consider either the Alexandrian the Fārābīan schemes to be based on simple truth-value assignments, sin any scheme that goes beyond designating propositions as "true" or "false" already modal in some way, qualifying as it does the way in which their trut values adhere to the propositions thus described. Whether we interpret the assignment of truth-values temporally, so that "absolutely true in all a spects" means "true at all times" or whether we construe it on a generic class basis, so that it means that the predicate is essentially true of all members included under the subject, the modal nature of the scheme is unmistatele. 107

In our examination of the Greek versions of the context theory, we sugested some of the problems that this sort of material classification mig pose. In general terms, to identify the propositions proper to any branch logic simply on the basis of the frequency of their being true or false does not seem to provide us with a proper or essential definition for any of the logic arts. Certainly such a classification gives us no distinguishing mark to so when we are attempting to identify the character of a particular statement composition, except perhaps in the case of poetics and demonstration, who truth and falsity are stated in absolute terms. Even if the modal classificated did provide accurate descriptions of the propositions included in each logic art, such a characterization would only offer us a necessary, and not a succient, condition for classifying any given proposition in a particular way. If the truth-value and the modality of a statement are not the sorts of propert that distinguish a rhetorical statement from a demonstrative one, or a phistical statement from a dialectical one. The case of poetics provides

excellent example of this general problem with the modal classification. Even if we grant the dubious claim that all poetic statements are "entirely false" or "impossible," we would not be inclined to say every poetic statement is poetic simply in virtue of its falsehood or its impossibility. At most we would claim poetic status for these statements on the basis of other qualities, such as their imaginative or mimetic character, while acknowledging that by virtue of their possessing this property, poetic statements are always impossible as well. And by the same token, few people would claim that any impossible statement becomes poetic simply by virtue of its impossibility: for example, the impossible, absolutely false statement, "All triangles are four-sided," is hardly poetic by any standards. 109

The difficulties of applying Farabi's principles to the realm of poetics illustrates well the more general incongruities of the third classificatory scheme of the Qawanin al-shicr. But the position of poetics within this scheme also poses some peculiar problems of its own. As was also the case with the Alexandrian discussions of poetic premises, the meaning of poetic falsehood in this division is not entirely clear. If Farabī intends to suggest that poetic statements are always false, his claim is open to serious objection. For there are surely some instances, no matter how few, where poetic statements also happen to be true, as in those rare cases when a metaphor is true even on the literal level.110 Perhaps, then, Farabī is thinking of the fictional nature of poetic statements, as Ebbesen has suggested of the Anonymous Heiberg author.111 But this interpretation runs into difficulties, since poems may refer to real entities and real events as much as to fictional ones. Aristotle himself makes provision for this in the Poetics, and it seems requisite for the interpretation of those genres of Arabic poetry that praise or deride real individuals.112 The notion of the necessary falsehood and impossibility of poetics is consistently rejected by Avicenna and Averroes in their commentaries on the Poetics. Part of the reason for this is that the fictional character of the subjects of poetics is eclipsed in the text of the Poetics by the theme of the representation and the incitement of human actions and emotions. Since the poet's

¹⁰⁷ Further support for our claim that Fārābī's truth-value scheme is essentially modal: be gathered from contemporary discussions of modal logic. For example, according to the c strual of modality in terms of possible worlds, necessary statements are true in all poss worlds, possible statements in at least some, and so on. Cf. Jaakko Hintikka, Models for Moities (Dordrecht: Reidel, 1969), 72. And more generally, see the introduction to the notice modality in G. E. Hughes and M. J. Cresswell, An Introduction to Modal Logic (London New York: Methuen, 1968), 22: "Among true propositions, we can distinguish between the which merely happen to be true and those which are bound to be true (or which could no false).... A proposition which is bound to be true we call a necessarily true proposition, and their counterparts the other modal operators, clearly express the same logical concepts as Fārābī's ph "absolutely true in all respects" and its counterparts.

For a summary of the various ways of construing modal notions in the Arabic philosoph tradition, see D. M. Dunlop, "Averroes (Ibn Rushd) on the Modality of Propositions," Isla Studies: Journal of the Central Institute of Islamic Research, Karachi 1 (1962): 23–34; In Nicholas Rescher, "Averroes' Quaesitum on Assertoric (Absolute) Propositions," Journal of History of Philosophy 1 (1963): 80–93, reprint in Studies in the History of Arabic Logic, 91–10.

¹⁰⁸ To put the point I am making here in other words, if we were to take Fārābī's truth-y division as offering definitions of the various logical arts, then for any discourse composed propositions p₁, p₂, p₃... p_m we would simply determine the truth or falsity of each state individually, compute the proportion of true statements to false ones, and then assign the course to its proper art. But this is clearly not the way we decide whether this or that wo

poetry, philosophy, or rhetoric. The same point would hold if we applied the truth-value criteria to an individual proposition, and interpreted the modal notions in terms of the frequency of times at which the proposition is likely to be true rather than false.

The same criticism does not hold, however, for demonstrative statements, which can legitimately be defined in terms of their absolutely necessary and universal character. But this anomaly simply points out the fundamental source of confusion in the truth-value/modal division of the branches of logic—namely, that it represents another vestige of the attempt to measure the other logical arts by standards that are proper to demonstration alone.

The phenomenon of the literal truth of certain metaphors assumes an important place in some contemporary philosophy of language. The parallel with the medieval problematic is discussed in more detail below, 213–14; 242–46.

¹¹¹ Commentaries and Commentators, 1:102.

see Poetics 9.1451b15-33. One might claim that even if the subject of the poem represents a real person, the poetic representation itself refers to a fictional entity comprising only the sum total of those qualities exploited by the poet. For a discussion of this as an interpretation of the Poetics itself, see Robert J. Yanal, "Aristotle's Definition of Poetry," Nous 16 (1982): 499-525.

aim is to exhort the hearer to imaginative acceptance, and ultimately to suit or avoidance of some act or object, the matters represented in the po must have some recognizable application to him as a human agent. Aver declares: "Indeed, the poet speaks only about existing or possible matt because these are the things he seeks to have people flee or pursue or which he seeks a congruous comparison..." Such an emphasis upon possible and the existent in the realm of poetics poses an obvious and of crete challenge to the truth-value and modal classification of logical prem in one of its more vulnerable aspects. If the identification of poetic prem as absolutely false is untenable, then the entire scheme represented in Qawanin al-shi^cr and similar texts appears to fall with it. But the Arabic dition does have a more acceptable alternative for classifying premises, that harmonizes with the conception of poetry embodied in the Arabic re ings of the *Poetics*, and at the same time provides a more profound und standing of the nature of the other logical arts, including demonstration. surprisingly, it is the willingness to exploit the full potential of the epister ogy of assent, especially on the part of Avicenna, that opens the possibility a revised interpretation of the material aspects of syllogistic theory.

We have raised a number of interpretive difficulties that appear to be tailed by the scheme of premise classification represented in Farabi's wānīn al-shi^r and similar texts, in particular as it relates to poetic statemen But Avicenna himself raises serious theoretical objections to the general plication of modal distinctions within this scheme. His primary interest, he ever, is in the consequences of the scheme for demonstration, not for rheto or poetics. For in both the Qiyas and the Isharat, Avicenna shows concern the fact that this kind of scheme denies the possibility that there can be demonstrative certitude of matters that are themselves merely possible. in fact our mode of understanding what is per se merely possible may itself necessary. That is, we may be certain that a proposition asserting that so matter is possible is itself necessarily true. Hence, in the Qiyās, Avicenna serves: "For we know that necessary things enter into demonstration; but possible may also enter into demonstration." And in the Ishārāt he explai further: "If these [demonstrative] premises are necessary, the conclus drawn from them is necessary, in the manner of their necessity, and [if] the are possible, the conclusion drawn from them is possible."114

By positing a one-to-one correspondence between a determinate vari of syllogistic and a specific modality, there is no way left for the logical s tem to accommodate formally the fact that our mode of understanding an o

114 Oivās, 4.12: Ishārāt, 80.9-11, Inati trans., 148. Cf. Ishārāt, 60.5-7, Inati trans., 150.

ject is not always identical to the object's mode of being. This is the fundamental problem which Avicenna's critique is intended to remedy. There is a close affinity between this critique, and the distinction between modality de dicto and de re, that is, between "It is possible/necessary that S is P" and "S is possibly/necessarily P." For what is at issue in both cases is the need to distinguish between modality as it pertains to existence of the objects of our knowledge, and modality as it characterizes our knowledge itself, as expressed in propositions about those objects. But there is a difference between the two. For the de re/de dicto distinction is a purely formal one, which properly refers to two different ways of interpreting propositions containing an explicit modal operator. Avicenna's distinction, on the other hand, is metalogical. It attempts to differentiate between two different perspectives from which non-modal propositions can be classified in modal terms: one related to the ontological modality of things (and parallel to de re) and the other related to the epistemological modality of the knower's understanding (and parallel to de dicto).115

The need to distinguish between the necessity or possibility of our knowledge, and the necessity or possibility of the objects we know, constitutes one of the more important functions of modal logic. If we assign a specific modal differentia to each of the syllogistic arts, the very concept of modal operators becomes redundant. In Avicenna's view, this consequence follows from the fact that modal operators provide a means for expressing refinements within demonstrative knowledge itself. When a philosopher explicitly designates propositions as possible or necessary, he indicates an interest in the ontological status of the object known, an interest proper to a theoretical inquiry aimed at an essential grasp of what is known. To declare explicitly that "S is necessarily P," or that "X is possibly Y," usually implies that the propositions themselves are necessary truths, arrived at as the result of painstaking metaphysical investigations. Such operators are seldom invoked unless the user is certain that the knowledge they express is itself necessary. In Avicenna's words: "What was intended [by Aristotle] is that the truth of the premises of the demonstration is, in their necessity, possibility, or absoluteness, a necessary truth."116

But such modal refinements are superfluous, and even detrimental, to the achievement of the ends pursued by the other logical arts. The orator, for example, is interested in the concrete facts necessary for proving his case, and the subtleties of modal logic will only confuse the matter. Even if he tends by

116 Ishārāt, 82.3-4, Inati trans., 150.

Averroes, Talkhīs al-shī'r, 77.1-3, Butterworth trans., 83. For other passages emphasizi the possible and existential character of poetic discourse, see Talkhūs al-shūc, §§38-39, 76. 79.8, Butterworth trans., 83-86; §55, 86.14-18, Butterworth trans., 93; §104, 129.2-5, Butterworth trans. worth trans., 138. In Avicenna, see Shi'r, 179.15-18, Dahiyat trans., 94; 183.8-23, Dahiyat tra 99-100; 184.2-15, Dahiyat trans., 100; 196.16, 197.4-5, Dahiyat trans., 119.

¹¹⁵ That Avicenna's critique is not about the use of explicit modal operators is clear. If it were, the critique would commit a rather blatant straw man fallacy. For it is highly unlikely that anyone would maintain, for example, that poetic statements are always of the form, "It is impossible that S is P"; the claim at issue is instead that all poetic statements of the form "S is P"

On the de dicto/de re distinction, see William Kneale, "Modality De Dicto and De Re," in Logic, Methodology, and Philosophy of Science, ed. E. Nagel, P. Suppes, A. Tarski (Stanford: Stanford University Press, 1963), 622-633.

and large to use premises whose modality is merely possible, he does no plicitly designate them as such, but instead assumes them as existentia actual. Thus he does not suggest that it is merely possible that someone acts in a given way is just and good; he asserts this possible premise as dence that the person is in fact of such a character. Because the ora purpose is not primarily to reveal the nature of things, but to persuadhearers, he does not, and should not, introduce modal considerations int discourse.

For Avicenna, then, the only suitable place for introducing modal no is within the realm of demonstration. But it is difficult to see how a div of syllogistic such as that of Fārābī's Qawānīn al-shi'r would ever be ab make use of modal refinements, even within demonstration. If the state "S is P" is merely possible (or equally true and false), for example, speci its modality will only make it explicit that it is, by definition, rhetorical. T will be no possibility of making the proposition a suitable object of der stration by introducing the modal operator. And yet, as Avicenna points there may be times in which the philosopher needs to express the fact the knows, without a doubt, at least the fact of that possibility.

It would be extremely misleading, in focusing upon this point of agreement between (the later) Avicenna and Fārābī, if we were to su that the text from the <code>Qawānīn al-shi^cr</code> accurately reflects Fārābī's or outlook. Fārābī's position is extremely complex, and several of his remar other contexts display a very nuanced and sophisticated understandin modality which seems to conflict with the doctrines expressed in the <code>Qawal-shi^cr</code>. With regard to the modal nuances upon which the Avicennia tique is based, Fārābī himself expresses a similar understanding of the character of necessity and possibility in his <code>Kitāb al-khaṭābah</code>. While F declares in this work that "of the possible there is no certitude at all immediately qualifies his meaning by restricting this declaration to the r of future possibility:

I do not mean that our knowing of the possible, that it is possible, is not contained. I mean that when something has the possibility of existing in the future does not exist, it is not possible for us to have any certitude concerning it, will exist or not exist, and so our belief in the existence of what is possible is all certain. 118

In the above text, Fārābī himself shows a keen appreciation of the ne distinguish between modes of being and modes of knowing. Similar per tives are in evidence in writings dedicated to the explication of the theodemonstration, such as the *Kītāb al-burhān* and the *Sharā* it al-yaqīn. Bo

these texts contain detailed discussions of certitude, and include a consideration of the distinction between necessary and non-necessary certitude, a distinction that reflects similar concerns to those expressed in the above passage from the Kitāb al-khatābah. Thus, Fārābī tells us that necessary certitude is distinguished from non-necessary certitude on the basis of the ontological mode of the object's existence: "Necessary certitude is to believe of that which, in its existence, cannot be otherwise than it is, that it cannot be otherwise than what is believed of it, in any way, or at any time. And the non-necessary it what is certain only at one time."119 The Shara it al-yaqin elaborates further on this distinction, noting that the criterion of ontological necessity has the effect of excluding sensible and existential propositions from the realm of absolute certitude, reserving it for intelligibles, and hence for universal and necessary propositions. 120 In a similar vein, the distinction between absolute and accidental certitude in the latter text serves again to illustrate Farabi's sensitivity to the distinction between the ontological status of the objects of knowledge, and the knower's mode of grasping them. Hence, the sixth condition of certitude he lists is that our certitude be "essential" and not accidental. This will prevent certitude from being predicated in any absolute sense of those beliefs which happen in fact to be necessarily true, but to which the subject assents for some reason other than his knowledge of the matter itself, such as his own emotional states and biases.¹²¹

Admittedly, these Farabian reflections on modality and demonstrative certitude do not strictly accord with the position of Avicenna's Ishārāt, since Farabī is still closing off the realm of absolute demonstrative certitude to all possible matters. And Farabi continues to refer to the traditional truth-value assignments for non-demonstrative premises to explain certain of their epistemic features, as he does with dialectic throughout the Kitāb al-jadal, where the partial falsehood of dialectical premises is traced to their concern with possible matters.122 This creates the impression that Farabī saw the use of the traditional criteria of truth-value and modal assignments to be complemented, rather than contradicted, by the use of more flexible epistemic criteria based on distinct types of assent, which are equally prominent in the same texts. But despite these misgivings, the foregoing survey of texts does show Farabī responding to the same sorts of concerns that appear to have motivated Avicenna's sharp critiques of the traditional Alexandrian divisions of the logical arts. If Farabī does not concur entirely with the position to be advocated by his successor, he at least shows himself to be capable of a sophisticated approach to the same issues.

¹¹⁷ Qiyās, 177.2–12. Cf. Averroes, Jawāmi^x al-khaṭābah: "You ought to be apprised the division—i.e. the division into the necessary and the possible—is not essential to the profenthymemes inasmuch as they are the premises of enthymemes.... For it is with reademonstrative syllogisms that premises are taken according to this description" (180.12 trans. 69).

¹¹⁸ Kitāb al-khatābah, 33.14-34.2.

¹¹⁹ Kitāb al-burhān, 21.15-17. The discussion continues to 22.16.

¹²⁰ Sharā'it al-yaqūn, §5, 100.7-17; §7, 102.3-7; §10, 104.6-12. The discussion of the Posterior Analytics in the Falsafah Aristūtālis, makes the same point, stating that neither possible nor existential premises are capable of yielding demonstrative certitude (75.1-5, 18-22, trans. 84-85).

<sup>85).
121</sup> Sharā'it al-yaqīn, \$6, 100.18-101.12.

¹²² Kitāb al-jadal, 20.22-22.10 (see Vajda, "La théorie de connaissance chez Saadia," 382-85); 107.9-13..

It is beyond the scope of our present topic to speculate over why and h Fārābī was able to hold the seemingly opposed views represented in te such as the Kitāb al-khatābah and the Kitāb al-jadal on the one hand, and t Oawanın al-shi'r and Risalah fi ma yanbaghi ... ta'allum al-falasafah on t other, without ever explicitly repudiating either approach. There is a enough of the Farabian corpus available to allow us to give any definite swers. Perhaps Farabī did not feel that these positions were in fact inco patible. Although ultimately Avicenna's scheme allows demonstration a mu wider range in the overall scope of human knowledge, by extending it into realm of the possible, the truth-value/modal division of logic gives mu more vivid and unqualified support to the primacy of demonstration, granting it a virtual monopoly on truth. Moreover, the scheme of the wanin al-shi'r has some attractiveness for the purposes of the context theo because it appears to effect a strong unity among the logical arts, by r ognizing a single goal, namely, that of distinguishing truth from falsehood. the aim of all the logical arts. Or perhaps the reasons are not philosophic but textual and historical: perhaps Farabī, like Avicenna, undergoes so sort of evolution in his thought away from the influence of the Alexandri school; or perhaps in some works he intends only to transmit the receiv Greek teachings, whereas in others he is philosophizing in his own voice Whatever the actual explanation, we must be careful not to impute too has to the Second Teacher any simplistic acceptance of the truth-value differen ation of the syllogistic arts, and reserve our appraisal of his position until have examined in more depth his detailed treatments of the poetical a rhetorical arts.

3. Tasdiq and the Classification of Premises

We have suggested already that the key to replacing the truth-value a modal system of premise classification with a system that is at once me flexible and more sophisticated lies in the ability of the Islamic tradition exploit the principle that assent is ultimately the epistemological goal to logic seeks to effect. The full and systematic implementation of such a reference is clearly represented in the writings of Avicenna, perhaps because the logic assent seems especially important to Avicenna's epistemological outlook

This is not to say, however, that the principles of Avicenna's system of premise classification are totally foreign to Fārābī. Throughout the logical writings of the Second Teacher, we find both general statements of a less complex system of premise-classification that is a clear precursor to the systems of Avicenna, and specific discussions of the epistemic status of particular types of propositions that will also be included in the Avicennian schemata.

General discussions of the types or varieties of propositions that are used in the different syllogistic arts occur in at least three of Farabi's short commentaries on logic, the Kitāb al-qiyās al-saghīr (Short book on the syllogism), the Kitāb al-jadal, and the Kitāb al-burhān. 125 In the Kitāb al-qiyās alsaghīr, Fārābī lists four varieties of propositions which are able to act as premises in syllogisms, because the assent given to them does not itself derive from the syllogistic process: received premises (maqbūlah); widely-accepted premises (mashhūrah); propositions arising from sensation (hāsilah can alhiss); and propositions that are intelligible by nature (al-ma'qulah bi-altab^c). 126 In this passage, there is no effort to collate each premise type with a logical art, perhaps because the text, which is based on the Prior Analytics, deals with what is common to all the syllogistic arts. In the Kitāb al-burhān and Kitāb al-jadal, however, an effort is made to assign specific premise types to specific syllogistic arts. Here, certain premises (al-yaqīnīyah), taking the place of premises intelligible by nature, are assigned to demonstration; widely-accepted premises are assigned to dialectic; and received premises are assigned to rhetoric.¹²⁷ The Kitāb al-jadal lists the same four premises as does

125 For a general description of Farabi's series of short commentaries on the *Organon*, see Mario Grignaschi, "Les traductions latines des ouvrages de la logique arabe et l'abregé d'Alfarabi," *AHDLMA* 39 (1972): 41–107, and Galston, "Alfarabi et la logique aristotélicienne,"

193 210 n 2

127 Kitāb al-burhān, 20.18–21.25; see also Vajda, "La théorie de connaissance chez Saadia," 390. In this text, each premise type is also assigned a distinct form of assent to which it gives rise: certitude in the case of demonstrative premises, near certitude (al-taṣdīq al-maqārib li-al-yaqīn) to widely-accepted premises, and sukān al-nafs (acquiescence of the soul) to rhetorical or received premises. On sukān al-nafs, see above, 77.

¹²³ This is quite possible in the <code>Qawānīn</code> al-shift, since Fārābī declares the exposition of Greek accounts of poetics to be a major objective, and devotes a good deal of the treatis cataloguing the types of Greek genres that are mentioned by Aristotle, Themistius, and oth But his enthusiastic discussion of the position of poetics and sophistic within the classifica of the parts of logic seems to indicate an inclination to accept these views as his own, and if are no disclaimers in the text to the contrary.

¹²⁴ Until recently, it has seemed that the tasawwur-tasaīq couplet was only inchoately sent in many Fārābīan texts (especially if the 'Uyūn al-masā'il is to be rejected as authentic Fārābīan.) See for example Van Ess, Die Erkenntnislehre, 102; in a recent article, I too no what seemed to be a less developed presence of the couplet in Fārābī ("The 'Imaginative S gism' in Arabic Philosophy," 254 n. 28, 256). But the appearance of the complete edition of rābī's short commentaries on logic by Al-'Ajam and Fakhry (Al-Manţiq 'inda al-Fārābī), sh

that discussions of conception and assent pervade much of Fārābī's logical teaching. Perhaps, then, it is not the inchoateness of the doctrine of assent in Fārābī, but Avicenna's overt development of a theory of proposition-types in terms of assent, that separates him from his predecessor.

¹²⁶ Kitāb al-qiyās al-saghū, ed. Rafīq al-ʿAjam, vol. 2 of Al-manţiq cinda al-Farābī, 75.2-6; the text is also edited by M. Türker, "Fârâbî'nin Bazi Mantik Eserleri," Revue de la Faculté de Langues, d'Histoire, et de Géographie de L'Université d'Ankara 16 (1958): 249.20-50.3; there is an English translation from the Türker edition by Nicholas Rescher, Al-Fārābī's Short Commentary on Aristolle's "Prior Analytics," 57. The text as edited by Al-ʿAjam omits the class of intelligibles premises, but they are mentioned in the apparatus, and included in Türker's edition. One presumes they were meant to be on the list, for Fārābī suggests his list is exhaustive, and to omit intelligible premises would be tantamount to excluding demonstrations from the class of syllogisms. Moreover, Fārābī's other consideration of general properties of the syllogism, the Kitāb al-qiyās (Syllogism), lists the same set of four premise-types, including maʿqūlah kullīyah uwal 'primary, universal intelligibles.' For this text, see vol. 2 of Al-ʿAjam, Al-mantiq cinda al-Fārābī, 18.16-19.6.

the Kitāb al-qiyās al-saghīr, mentioning sensible premises, but using the l of yaqīnīyah for the demonstrative class.¹²⁸

Farābī's classification of premise types in the foregoing texts does not the impression of a systematic or exhaustive scheme, though Farābī so times implies his lists are exhaustive. The collation of premise-types with five species of syllogistic is incomplete, since there is no mention at all o ther sophistry or poetics. Despite the general agreement of the var Farābīan texts with one another, the fourfold division of premises has so thing of an ad hoc appearance about it: it does not yet seem to have I raised to the level of a fundamental structure in Farābī's conceptio logic. 130

The matter is somewhat different with Avicenna. While reproducing eral of Farabi's premise-categories in his own writings, Avicenna goes far yond Farabī, adding new categories, extending the classification to inc multiple types of premises for all five types of syllogisms, and most im tantly, articulating the rationale behind the scheme by linking it explicitly the notion of assent. In doing so, Avicenna is able to accommodate to s degree the logician's legitimate preoccupation with the truth-value modality of propositions, since it is a necessary condition of tasdīq that t occur with it some judgement of truth and falsehood to which assent is given. But Avicenna's focus upon the act of assent as an epistemological nomenon also enables him to take into account the knowing subject's n of granting assent to this judgement, the key element lacking in the mo truth-value system which prevented it from recognizing, among other th demonstrations of the possible. Moreover, Avicenna's assent-based scher flexible enough to encompass even the ends of poetics, without forcing art into a paradigm into which it was not meant to fit. For Avicenna al that assent itself need not always be the goal of the syllogistic process,

that not all syllogistic premises need to evoke our assent. The minimal requirement for all premises is simply that they elicit some element of acceptance in the human soul which is capable of engendering a discursive, syllogistic movement from premises to a conclusion:

All of the principles of the syllogism are matters which are assented to in some respect, or not assented to. But if that which is not assented to does not follow the course of what is assented to, because of an impression of it in the soul which in some respect takes the place of what causes assent to occur, then it is not used at all in syllogisms.¹³¹

In three of his works, the *Burhān*, the *Najāh*, and the *Ishārāt*, Avicenna develops the principle expressed in this passage into a very elaborate and detailed classification of premise-types.¹³² Two of these discussions, that of the *Burhān* and the *Najāh*, occur in the introductory sections of treatises dedicated to demonstration, suggesting that Avicenna's main purpose is to determine which premises are suitable for demonstrative use. While it is not our intention to discuss in detail the individual classifications that Avicenna provides in these three extended discussions of premise-types, a brief overview of some of the categories included may help to illustrate the features of the system which are important for our concerns.¹³³

Although these three accounts differ somewhat in the number and variety of the premises listed in each, generally they present a single and consistent theory. But since the *Ishārāt* is the only one of the three discussions that explicitly assigns premise-types to the individual syllogistic arts, it will be most convenient to present a rough schematization of its doctrine. Not all of the subdivisions which Avicenna makes within each category are included here, but our list is sufficiently complete to give an indication of the underlying rationale of Avicenna's system:¹³⁴

1. Demonstration:

Propositions which must be accepted (al-wājib qubūl-hā) Subdivisions include:

Primary propositions/First principles (al-awwalīyāt)

¹²⁸ Kitāb al-jadal, 19.6-12. Fārābī does not assign sensible premises to any particular lart, although he discusses them extensively throughout the text. Since Fārābi is adaman dialectic, sophistry, and demonstration all reason only about universal matters, presu sensible propositions, as such, belong to none of these, unless they are in some way raise universal level. Since Fārābī clearly accepts that demonstrative knowledge can arise from rience (see, e.g., Kitāb al-jadal, 66.18-19; Kitāb al-burhān, 24.17-25.9), perhaps se premises can belong to a variety of logical arts, depending on the way in which they a cepted, and depending upon whether they are taken as universal or as particular.

¹²⁹ Fārābī sometimes links sophistry to widely-accepted premises, distinguishing it frequency and the grounds that dialectic takes premises that are in fact widely-accepted, with sophistry takes those that only appear or are presumed to be so. See for example Kit jadal, 26.10-16, and chap. 5 below, 144-45 n.19. Fārābī does discuss poetic syllogisms in of their being productive of imagination (mukhayyilah), and this is also included as one gory within Avicenna's system of premise classification. But Fārābī does not bring poet rectly into play in any of his discussions of premise-types of which I am aware.

¹³⁰ An alternative classification of premises, clearly relying upon Aristotle's Posterior lytics, occurs in Fārābī's Kitāb al-burhān, 87.14–90.16. This division includes certain pre definitions, axioms, and postulates. Especially significant here is the use of the premises whose acceptance is necessary" (al-muqaddimāt al-wājib qubūl-hā) (87.17) scribe certain premises, since this Avicenna's term for the class of premises that are suital demonstration.

¹³¹ Burhan, 63.3-5.

¹³² Ibid., 63.1-67.20; Najāh, Q61.1-66.7, T113.7-123.1; Ishārāt, 55.15-64.5, Inati trans., 118-28. Cf. also Avicenna's Treatise on Logic: Part One of Danesh-Name Alai (A Concise Philosophical Encyclopedia) and Biography, trans. Farhang Zabeeh (The Hague: Nijhoff, 1971), 40-42. Avicenna also alludes to the classification of logical premises in his psychological writings, though scholars have tended to overlook the connection that Avicenna wishes to forge between logic and psychology. See, for example, Najāh, Q182.4-183.11, T371.12-374.14, Rahman trans., 54-56, Nafs, 221.14-223.10, Van Riet, 102.94-105.39, where, in the course of a discussion of the aid provided by the animal faculties to the rational soul, Avicenna alludes to the discussions of empirical premises and of premises derived from tawātur (transmitted accounts) in the logical corpus.

corpus.

133 A detailed outline of the three variations on this classification scheme in Avicenna is provided in Shams Inati's Introduction to *Remarks and Admonitions*, 28–34. Schoeler, "Der poetische Syllogismus," also provides a summary of the *Ishārāt* scheme and of al-Tūsī's commentary on it (53–56). Cf. Van Ess, *Die Erkenntnislehre*, 398-406.

¹³⁴ Based on Ishārāt, 55.16-64.5, 80.7-81.8; Inati trans., 118-28, 148-49.

Sensibly-perceived propositions (al-maḥsūsāt) Empirical propositions (al-mujarrabāt)

Intuited propositions (al-hadsīyāt)

Propositions based on unanimous reports or traditions (al-tawāturī)

2. Dialectic:

Widely-Accepted Propositions (al-mashhūrāt)

Subdivisions include:

Primary propositions (al-awwalīyāt) not insofar as they require ceptance, but insofar as they are universally acknowledged as t ('umīm al-i'tirāf')

Esteemed or Praiseworthy Propositions (al-maḥmūdāt)

Determined Propositions (al-taqrīrīyāt). 135

3. Rhetoric:

Received Propositions (al-maqbūlāt), based on authority Supposed or Presumed Propositions (al-maznūnāt)

4. Poetics:

Premises Productive of Imagining (al-mukhayyilāt)

5. Sophistic:

Propositions Resembling the other Propositions (al-mushabbahāt), used to ceive the hearer.

An initial glance at Avicenna's classification both here and in his other wo can be somewhat misleading, in that there is no clear principle of classification immediately apparent in the scheme. Some of Avicenna's categories clearly faculty-oriented, such as the sensibly-perceived premises (al-mi sūsāt), the premises productive of imagining (al-mukhayyilāt), and premises apprehended by the estimative sense (al-wahmīyāt). This use psychological categories seems vaguely reminiscent of the discussions Philoponus and his successors, in which syllogistic premises were classifiaccording to their originating psychic faculties. The But clearly psychological categories do not play a prominent role in the general pattern of Avicent classification. The But clearly psychological signification that the app to a psychological faculty serves in these particular instances, it becomes cl

135 The name refers to propositions determined by the context of a dialectical debate, of cepted as postulates within a science.

137 See chap. 2, 37-38, 40, 44-45. Sensible premises, of course, are one of Farabi's four of gories, as we have seen; the estimative are not mentioned at all by Farabi, since it appears this psychological category is original to Avicenna.

that its role is primarily to specify the kind of acceptance which these propositions impose upon the knower. For example, the important aspect of sensible premises is not their origin in the sense powers *per se*, but rather, the fact that we are naturally compelled to assent with strong conviction to what we perceive directly; in imaginative premises, the important element is the affective movement that images naturally engender when accepted; and in estimative premises, what is emphasized is the inability of the estimative sense to assent to the existence of anything that is not sensibly-perceptible.¹³⁹

The same emphasis, moreover, clearly underlies Avicenna's non-psychological categories. Several subdivisions of dialectical and demonstrative premises, for example, are grouped together under two broader categories in the Ishārāt, most generally as admitted propositions (al-musallamāt), and more specifically as beliefs (al-mu^ctagadat). And demonstrative premises are designated in Avicenna's scheme primarily in terms of the fact that their acceptance by the knower is necessary.¹⁴⁰ While objective certitude is clearly of underlying importance, the emphasis here is upon the fact that assent to demonstrative premises is incumbent upon the human mind. Avicenna does not, for example, defend the demonstrative status of empirical premises by arguing for the uniformity of nature; all that he emphasizes is the subjective necessity that forces us to believe in what we have repeatedly experienced: "The experientials are propositions and judgments that are consequent upon our repeated observations, which leave a trace by their repetition, thus insuring the formation of a strong and an indubitable belief."141 The same is true in the case of al-tawatur, premises based on numerous and unanimous accounts, which lead us to assent to the existence of those empirical truths that we have not witnessed ourselves. Avicenna's concern here is not to provide a justification of testimonial and historical evidence, but to point out that numerous, unanimous witnesses suffice to remove any doubt that might cause the withholding of assent.142

Similarly, in the case of non-demonstrative premises, Avicenna's focus remains that of determining not only the source of assent, but also its extent and its degree. In the case of dialectic, for example, the emphasis is upon the social and situational factors that engender assent, whether it be the general notoriety and popularity of a given belief, or the provisional acceptance of a

¹⁴² Ishārāt, 57.13-17, Inati trans., 121. Avicenna's examples of tawātur are our belief in the existence of Mekkah, Galen, and Euclid. For a discussion of the notion of tawātur, see Bernard Weiss, "Knowledge of the Past: The Theory of Tawātur According to Ghazālī," Studia Islamica 61 (1985): 81-105.



¹³⁶ We have not included this very interesting and important category on our list, sinc assignment to a specific logical art is not undertaken by Avicenna. Ghazālī lists "pure esti tive premises" (al-wahmīyāt al-ṣirfah, i.e. those not held in check by the intellect) as sophist See Mī'yār al-'ilm (The standard for knowledge), ed. S. Dunya under the title Maniṭa tah-falāsifah (The logic of the Incoherence of the philosophers) (Cairo: Dār al-Ma'ārif bi-la 1961), 198.23-199.18.

¹³⁸ They are useful, however, for drawing distinctions within broader categories that d nate a generic type of assent. Thus, in the Burhān, 63.16-64.2, the category of premises to w assent is necessary is divided into those where the necessity is evident to the senses, and t where the necessity is hidden, to the extent that its apprehension involves some psychic p other than the five external senses. Hidden necessity is then discussed by Avicenna in term the specific psychological source faculty that necessitates assent, and whether it is an intertual power, or a non-intellectual one, such as estimation.

¹³⁹ Compare too the description of intuited propositions (al-hadsīyāt): "These are propositions in which the principle of the judgement is a very strong intuition of the soul, with which doubt is removed and to which the mind submits (wa-adhana la-hu al-nafs)" (Ishārāt, 57.8-9, Inati trans., 121).

¹⁴⁰ Cf. Farabi's foreshadowing of this principle, n. 130 above.

¹⁴¹ Ishārāt, 56.17-57.1, Inati trans., 120. Avicenna does not deny, in Humean fashion, that one can demonstrate the reliability of experience as a source of certitude. But he adds at the end of this passage that this proof is not the responsibility of the logician (57.2-3). Cf. Fārābī, Kitāb al-burhān, 23.3-12, cited in n. 146 below.

proposition imposed by disputation or investigation. The case of rhetc premises is similar, except that the cause of assent is more remote from knower, and evocative of a lesser degree of adherence.¹⁴³

It is also here, in the realm of rhetorical and dialectical premises, the find a precursor for Avicenna's perspective in the writings of Fārābī. We Fārābī does not raise to the level of a general principle the shift of emplifrom objective truth to mode of assent, he does recognize such a shift we individual arts. In a number of passages in the Kitāb al-jadal, Fārābī diguishes renown (shuhrah) from truth, and claims that it is the former, not the latter, that is relevant in determining dialectical acceptance. Tenown and esteem (maḥmūdah) or repudiation (shanī), rather than we or falsehood, are repeatedly asserted to be the categories proper to dialical assent:

Of widely-accepted beliefs there are those which are chosen and esteemed by and those which are repudiated and rejected by all, the latter being repulsive lief. And these two contradict one another in terms of what is widely-accepted as the true and the false do in scientific propositions. For the true in what is stiffic corresponds to the chosen and esteemed in the dialectical. And the false it scientific corresponds to what is repulsive in the dialectical. 144

Later in the same text, Fārābī pushes to the limit his claim that only denstration is dependent upon objective criteria for its acceptance. In discuss the granting of dialectical premises by the participants in a dialectical deb Fārābī remarks that demonstrative premises require no such process granting. Their truth-status is natural to them, not relative to their being cepted by a particular knower; indeed, there need be no acknowledgement them at all for them to be premises, since "they are only premises because the conditions that belong to them in themselves, and not because of the relation to someone positing or acknowledging them." 145

In chapters five and six, we will discuss in greater detail the specific deacterizations of those premises that are eventually assigned to the province the rhetorical and poetical arts. But this general synopsis of Avicenna's six sion of the material aspects of the syllogism, and its precursors in Farabī, i

143 See for example the description of the act of assent underlying presumed premises maznūnīyāt): "By 'presumption' here I mean an inclination of the soul with a feeling that opposite is possible" (Ishārāt, 61.15–16, Inati trans., 125; cf. Najāh, Q64.6-7, T120.9 Burhān, 66.16).

145 Kitāb al-jadal, 65.8-9.

revealed much in its own right. Despite its prima facie appearance as a haphazard collection of unrelated epistemological distinctions, Avicenna's divisions of premises, and to a lesser extent those of Fārābī, are united by an underlying effort to understand and explain the differing types and degrees of adherence evoked by the various logical arts. The system assumes that objective certitude generally underlies those forms of assent that are naturally incumbent upon a human knower, but leaves it to another discipline, such as metaphysics or natural philosophy, to justify this belief. What is important for the logician is the recognition that demonstrative acceptance and the certitude that it engenders are as much a form of subjective adherence as are the acts of assent produced by the rest of the arts. The question of how we know whether or not the accepted assertion is true or necessary is thus utterly distinct from, and irrelevant to, determining to which branch of logic a given syllogism belongs. 146

To this extent, then, the focus of Islamic logic upon the goal of assent, culminating in the recognition by Avicenna of a new sense of the material aspects of the syllogism, is the key to the ability of Arabic logic to exploit fully the potential of the context theory for promoting an autonomous interest in rhetorical and poetical modes of discourse. Admittedly, as we have seen in this chapter, the tendency to regard demonstration as the primary goal of logic remains intact despite this development. Even in accepting the version of premise classification systematized by Avicenna, the Arabic tradition was not entirely immune to the temptations of a truth-value scheme, a scheme that admittedly offers a unified view of logic as the method for distinguishing the true from the false. The allure of this temptation is later evidenced in the logical discussions of Ghazālī, who combines the premise classification of the later Avicenna with a colourful, but derisive, adoption of the sort of truth-value assignments found in Fārābī's Qawānīn al-shī'r and in Avicenna's early Maqālah fī al-nafs.¹⁴⁷

¹⁴⁴ Kitāb al-jadal, 20.1–4, Vajda, "La théorie de connaissance chez Saadia," 380–81; cf. & al-jadal, 105.12–18, where the impossible and the repugnant are said to be analogous in spheres of science and dialectic. Perhaps this principle is inspired by the Aristotelian anabetween pursuit and avoidance in the realm of sensation, and affirmation and denial it realm of intellection. See De anima, 3.7.431a8–14, 431b10–12. The latter passage clearly as a generic unity between true and false, and good and bad: "That too which involves no ad i.e. that which is true or false, is in the same province with what is good or bad: yet they did in this, that the one is absolute and the other relative to someone" (1:686). On the role of Aristotelian background in the Islamic philosophers' discussions of poetics, see chap. 7 by 231–35.

¹⁴⁶ On this point, cf Fārābī, Kitāb al-Burhān, 23.3—12, on the certitude of primary premises: "And there is no need for us to make known in this book how they are attained and from where they are attained, because our being ignorant of the manner of their attainment does not cause [our] certitude in them to cease, nor does it diminish it, nor impede us from composing a syllogism from them which causes certitude for us as a necessary entailment from them. And the manner in which these primary knowlables are attained is one of the things investigated in the sciences and in philosophy." See also the passage of Avicenna, cited in n. 141, above.

¹⁴⁷ Ghazāli adopts Avicenna's assent-oriented premise classification, and yet works it into a truth-value schema like that found in Fārābī's Qawānīn al-shī's, illustrating it with a picturesque analogy to counterfeit coins. See the Maqāṣid al-falāṣifah (Intentions of the philosophers), ed. S. Dunya under the title Muqaddimah al-tahāfut al-falāṣifah (Introduction to the Incoherence of the philosophers) (Cairo: Dār al-Maʿārif bi-Miṣr, 1961), 100.5-101.24; critical edition of the medieval Latin translation by Charles Lohr, "Logica Algazelis: Introduction and Critical Text," Traditio 21 (1974): 223-90, esp. 273.495-278.675; see also Mīʿyār al-ʿflm, 184.4-

4. Concluding Remarks

In themselves, the general logical doctrines that we have examined in chapter, within which the Islamic philosophers' expositions of the contheory unfold, remain somewhat ambivalent. On the one hand, the philosophers we have examined remain tied to the hierarchical ordination of all cal and philosophical endeavors to the attainment of demonstrative certification of this reason tend to deny any strictly autonomous worth to the goes the non-demonstrative arts. This occurs, as we have seen, even in the remition of the importance of rhetoric and poetics for fulfilling the communitive functions of language. For the overriding orientation of these two are the aims of communication is ultimately perceived, not as evidence of all pect of the rational use of language which requires the appeal to demonstrative means, but as evidence of the philosopher's ability to disposith these skills for his own personal, and truly philosophical, goals.

Nonetheless, it cannot be emphasized too strongly the extent to which concept of assent, in its specific development into the underlying princi a new system for the epistemic classification of premises, provides a course vailing force against this dominant trend. For the assignment to each an particular kinds of premises, which produce particular varieties of ass provides an important measure of autonomy to the individual logical art ensuring that each of them will fulfill an epistemological function that clearly independent of the functions of every other art. It is mainly within more detailed and individualized treatments of rhetoric and poetics that fruits of this development are reaped in the Arabic context. Such deve ments, to which we will give our attention in the remaining chapters, s evidence of a serious and sophisticated interest in the semantics of poet and rhetorical language and their underlying argumentative structures. an interest which, in many ways, would seem to belie the harsher nouncements we have encountered regarding the philosopher's indifferen as philosopher, to the arts of rhetoric and poetics.